

SEQUENCE LISTING

<110> ASTRAZENCA AB and DYAX CORP.
 Christer NORDSTEDT
 Tom GOLDSCHMIDT
 Maria HENDERIKX
 Rene HOET
 Hendricus HOOGENBOOM
 Simon HUFTON
 Christin V. ANDERSSON
 Johanna LINDQUIST
 Dan SUNNEMARK
 Sergy LEONOV

<120> ANTIBODIES

<130> 117-580 / N.90271E GCW

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<141> 2006-05-15

<150> PCT/EP2004/013426

<151> 2004-11-26

<150> US 60/525,174

<151> 2003-11-28

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Val Lys Glu Gln Val Ala Glu Val Arg Ala Lys Leu Glu Glu Gln Ala
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Gln Gln Ile Arg Leu Gln Ala Glu Ala Phe Gln Ala Arg Leu Lys Ser
 35 40 45

Trp Phe Glu Pro Leu Val Glu Asp Met Gln Arg Gln Trp Ala Gly Leu
 50 55 60

Val Glu Lys Val Gln Ala Ala Val Gly Thr Ser Ala Ala Pro Val Pro
 65 70 75 80

Ser Asp Asn His

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Val	Lys	Glu	Gln	Val	Ala	Glu	Val	Arg	Ala	Lys	Leu	Glu	Glu	Gln	Ala
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Val	Glu	Lys	Val	Gln	Ala	Ala	Val	Gly	Thr	Ser	Ala	Ala	Pro	Val	Pro
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Arg Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu Val
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Arg Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala Glu
1 5 10 15

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Ala Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu Asp
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Met Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala Val
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Gly Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His
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Leu Val Glu Asp Met Gln Arg Gln
1 5

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Met Gln Arg Gln Trp Ala Gly Leu
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Trp Ala Gly Leu Val Glu Lys Val
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Arg Thr Arg Asp Arg Leu Asp Glu
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Trp Phe Glu Pro Leu Val Glu Asp
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Ala Phe Gln Ala Arg Leu Lys Ser
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Ala Arg Met Glu Glu Met Gly Ser Arg Thr Arg Asp Arg Leu Asp Glu
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Val Lys Glu Gln Val Ala Glu Val
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Ala Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu Asp
1 5 10 15

Met Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala Val
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Ser Xaa Xaa Leu Asp Tyr
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Lys Tyr Ser Met His

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Gly Ile Tyr Ser Ser Gly Gly Lys Thr Ile Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

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Ser Leu Asp Leu Asp Tyr
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Met Tyr Met Met Asp
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Ser Ile Trp Pro Ser Gly Gly Gln Thr Trp Tyr Ala Asp Ser Val Lys
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Gly

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Ser Val Leu Leu Asp Tyr
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Tyr Tyr Ala Met Gln
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Ser Leu Tyr Pro Ser Gly Gly Asn Thr Ser Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

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Gly Arg Gly Asn Tyr Asp Phe Trp Ser Ala Gly Tyr Tyr Tyr Tyr Tyr
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Met Asp Val

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Arg Ala Ser Gln Arg Ile Arg Lys Asn Leu His
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Asp Ala Ser Ser Asn Glu Arg
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Gln Gln Ser Phe Ser Ser Pro Trp Thr
1 5

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Arg Thr Ser Gln Asp Ile Arg Asn His Leu Gly
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Glu Ala Ser Ile Leu Gln Ser
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Leu Gln Tyr Asp Ser Phe Pro Tyr Thr
1 5

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<400> 36

Arg Ala Ser Gln Ser Ile Gly Ser Arg Tyr Leu Ala
1 5 10

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<400> 37

Asp Ala Ser Lys Arg Ala Thr
1 5

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<400> 38

Gln Gln Gly Tyr Asn Trp Pro Pro Trp Thr
1 5 10

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Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Tyr
20 25 30

Ser Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Gly Ile Tyr Ser Ser Gly Gly Lys Thr Ile Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Pro Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Ser Leu Asp Leu Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr

100 105 110

Val Ser Ser
115

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Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Met Tyr
20 25 30
Met Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Ser Ile Trp Pro Ser Gly Gly Gln Thr Trp Tyr Ala Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Ser Val Leu Leu Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
115

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<400> 41

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Tyr
20 25 30
Ala Met Gln Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Ser Leu Tyr Pro Ser Gly Gly Asn Thr Ser Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Gly Arg Gly Asn Tyr Asp Phe Trp Ser Ala Gly Tyr Tyr Tyr
100 105 110

Tyr Tyr Met Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser
115 120 125

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Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
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Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Arg Ile Arg Lys
20 25 30

Asn Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Asn Leu Leu
35 40 45

Ile Tyr Asp Ala Ser Ser Asn Glu Arg Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Arg Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Leu Ala Thr Tyr Tyr Cys Gln Gln Ser Phe Ser Ser Pro
85 90 95

Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

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Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Thr Ser Gln Asp Ile Arg Asn
20 25 30

His Leu Gly Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Gln Arg Leu

35	40	45
Ile Arg Glu Ala Ser Ile Leu Gln Ser Gly Val Pro Ser Thr Phe Tyr		
50	55	60
Gly Ser Gly Tyr Gly Arg Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln		
65	70	75 80
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Asp Ser Phe Pro		
	85	90 95
Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys		
100	105	

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Gln Asp Ile Gln Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro		
1	5	10 15
Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Ile Gly Ser		
	20	25 30
Arg Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu		
	35	40 45
Leu Ile Tyr Asp Ala Ser Lys Arg Ala Thr Gly Val Pro Val Arg Phe		
50	55	60
Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu		
65	70	75 80
Gly Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Gly Tyr Asn Trp		
	85	90 95
Pro Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys		
	100	105 110

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Phe Tyr Gly Met Val
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<400> 46

Ser Ile Ser Pro Ser Gly Gly Tyr Thr Leu Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

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<400> 47

Asp Gly Arg Arg Pro His Tyr Gly Ser Gly Arg Trp Ala Tyr
1 5 10

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Arg Tyr Leu Met Met
1 5

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<400> 49

Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

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Ser Ile Ala Ala Ala Gly Thr Asp Tyr
1 5

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Asn Tyr Phe Met Ile
1 5

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Trp Ile Ser Pro Ser Gly Gly Thr Thr Gln Tyr Ala Asp Ser Val Lys
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Gly

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Glu Ala Gly Tyr
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Ala Tyr Tyr Met Gly
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Val Ile Arg Pro Ser Gly Gly Lys Thr Lys Tyr Ala Asp Ser Val Lys

1 5 10 15

Gly

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Gly Pro His Gly Gln Gly Gly Val Asp Ser
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Glu Tyr Phe Met Thr
1 5

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Ser Ile Arg Pro Ser Gly Gly Lys Thr Arg Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

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Val Ser Arg Tyr Tyr Asn Asn Gly Ala Tyr Arg Leu Asp Ala Phe Asp
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Ile

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Ala Tyr Arg Met Ala
1 5

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Tyr Ile Ser Ser Ser Gly Gly Val Thr Ser Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

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Gly Thr His Leu Pro Gly Val Asp Tyr
1 5

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Gly Tyr Ile Met Ala
1 5

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Gly Ile Gly Ser Ser Gly Gly Leu Thr Ala Tyr Ala Asp Ser Val Lys
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Gly

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Glu Ala Gly Tyr
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Ser Tyr Pro Met Val
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Gly Ile Trp Ser Ser Gly Gly Leu Thr Tyr Tyr Ala Asp Ser Val Lys
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Gly

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Glu Gly Ser Ala Gly Val Val Lys Gly Pro Ala Arg Tyr Tyr Tyr Tyr
1 5 10 15

Tyr Met Asp Val
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Lys Tyr Gln Met Thr
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Val Ile Ser Ser Ser Gly Gly Asp Thr Ala Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

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Asp Arg Gly Tyr Cys Ser Gly Asn Thr Cys Tyr Ile Asp Ala Phe Asp
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Ile

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Pro Tyr Trp Met Phe
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Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

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Val Gly Met Ser Thr Tyr Ala Phe Asp Ile
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His Tyr Gly Met Ser
1 5

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Ser Ile Arg Ser Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val Lys
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Gly

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Gly Ser Leu Ser Ser Gly Trp Asp Tyr
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Asn Tyr Arg Met Glu
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Ser Ile Trp Ser Ser Gly Gly Leu Thr Lys Gln Ala Asp Ser Val Lys
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Gly

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Gly Leu Tyr Arg
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Trp Tyr Leu Met His
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Ser Ile Val Pro Ser Gly Gly Thr Thr Val Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

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Asp Leu Trp Phe Gly Glu Trp Asp Tyr
1 5

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Trp Tyr Ser Met Val
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Ser Ile Gly Pro Ser Gly Gly Met Thr Arg Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

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Asp Gln Gly Ile Thr Met Val Gln Gly Ala Met Gly Tyr
1 5 10

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Val Tyr Ser Met Ala
1 5

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<400> 88

Gly Ile Trp Pro Ser Gly Gly Pro Thr Ala Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

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Glu Asp Phe Trp Ser Gly Leu Glu Asp Val
1 5 10

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Ser Gly Ser Ser Ser Asn Ile Gly Ser Glu Tyr Val Tyr
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Arg Asn Asp Gln Arg Pro Ser
1 5

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Ala Ala Trp Asp Asp Ser Leu Pro Gly Trp Cys
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Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn
1 5 10

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Asn Asn Asn Gln Arg Pro Ser
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Ala Ala Trp His Asp Gly Leu Asn Gly Pro Val
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Lys Ala Ser Gln Ser Val Arg Ala Phe Ile Ala
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Gly Ala Ser Asn Arg Ala Thr
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Gln Gln Tyr Gly Ser Ser Arg Tyr Thr
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Arg Ser Ser Gln Ser Leu Leu His Ser Ser Gly Tyr Asn Tyr Leu Asp
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1 5

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Arg Ala Ser Gln Ser Val Ser Ser Asn Leu Ala
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Gly Ala Ser Thr Arg Ala Thr
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Gln Gln Tyr Ala Gly His Pro Ile Thr
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Gln Gln Ser Tyr Ser Thr Pro Arg Thr
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Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Tyr Val Tyr
1 5 10

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Arg Asn Asn Gln Arg Pro Ser
1 5

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Ala Ala Trp Asp Asp Ser Leu Asn Ala Trp Val
1 5 10

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Lys Ser Ser Gln Ser Leu Leu His Ser Asn Gly Tyr Asn Tyr Leu Asp
1 5 10 15

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Leu Gly Ser Asn Arg Ala Ser
1 5

<210> 119
<211> 8
<212> PRT
<213> Homo sapiens

<400> 119

Met Gln Ala Leu Gln Thr Ile Thr
1 5 ,

<210> 120
<211> 11
<212> PRT
<213> Homo sapiens

<400> 120

Arg Ala Ser Gln Ser Ile Ser Arg Trp Leu Ala
1 5 10

<210> 121
<211> 7
<212> PRT
<213> Homo sapiens

<400> 121

Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 122
<211> 9
<212> PRT
<213> Homo sapiens

<400> 122

Gln Gln Ser Tyr Ser Thr Pro Leu Thr
1 5

<210> 123
<211> 11
<212> PRT
<213> Homo sapiens

<400> 123

Ala Gly Asp Glu Leu Gly Asn Lys Tyr Ala Ser
1 5 10

<210> 124
<211> 7

<212> PRT
<213> Homo sapiens

<400> 124

Gln Asp Arg Lys Arg Pro Ser
1 5

<210> 125
<211> 9
<212> PRT
<213> Homo sapiens

<400> 125

Gln Ser Trp Asp Ser Ser Ser Val Ile
1 5

<210> 126
<211> 11
<212> PRT
<213> Homo sapiens

<400> 126

Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
1 5 10

<210> 127
<211> 7
<212> PRT
<213> Homo sapiens

<400> 127

Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 128
<211> 9
<212> PRT
<213> Homo sapiens

<400> 128

Gln Gln Ala Asn Ser Phe Pro Leu Thr
1 5

<210> 129
<211> 14
<212> PRT
<213> Homo sapiens

<400> 129

Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser
1 5 10

<210> 130

<211> 7

<212> PRT

<213> Homo sapiens

<400> 130

Glu Val Asn Lys Arg Pro Ser
1 5

<210> 131

<211> 10

<212> PRT

<213> Homo sapiens

<400> 131

Ser Ser Tyr Ala Gly Arg Asn Phe Val Val
1 5 10

<210> 132

<211> 11

<212> PRT

<213> Homo sapiens

<400> 132

Gly Gly Asn Asn Ile Gly Thr Lys Ile Val Asn
1 5 10

<210> 133

<211> 7

<212> PRT

<213> Homo sapiens

<400> 133

Asp Asn Ser Asp Arg Pro Ser
1 5

<210> 134

<211> 11

<212> PRT

<213> Homo sapiens

<400> 134

Gln Leu Trp Asp Ser Ser Ser Asp His Pro Ile
 1 5 10

<210> 135
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 135

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Phe Tyr
 20 25 30

Gly Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Ser Ile Ser Pro Ser Gly Gly Tyr Thr Leu Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Lys Asp Gly Arg Arg Pro His Tyr Gly Ser Gly Arg Trp Ala Tyr
 100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 136
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 136

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr
 20 25 30

Leu Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr

Tyr Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Val Ile Arg Pro Ser Gly Gly Lys Thr Lys Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Pro His Gly Gln Gly Gly Val Asp Ser Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

<210> 139
 <211> 126
 <212> PRT
 <213> Homo sapiens

<400> 139

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Glu Tyr
 20 25 30
 Phe Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Ser Ile Arg Pro Ser Gly Gly Lys Thr Arg Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Val Ser Arg Tyr Tyr Asn Asn Gly Ala Tyr Arg Leu Asp Ala
 100 105 110
 Phe Asp Ile Trp Gly Pro Gly Thr Val Val Thr Val Ser Ser
 115 120 125

<210> 140
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 140

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ala Tyr
 20 25 30
 Arg Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Tyr Ile Ser Ser Ser Gly Gly Val Thr Ser Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Lys Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Thr His Leu Pro Gly Val Asp Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 141
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 141

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Gly Tyr
 20 25 30
 Ile Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Gly Ile Gly Ser Ser Gly Gly Leu Thr Ala Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Glu Ala Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 100 105 110

Ser

<210> 142
 <211> 129
 <212> PRT
 <213> Homo sapiens

<400> 142

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly		
1				5					10					15			
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr		
			20					25					30				
Pro	Met	Val	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val		
		35					40					45					
Ser	Gly	Ile	Trp	Ser	Ser	Gly	Gly	Leu	Thr	Tyr	Tyr	Ala	Asp	Ser	Val		
	50					55					60						
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr		
65					70					75					80		
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys		
				85					90					95			
Ala	Arg	Glu	Gly	Ser	Ala	Gly	Val	Val	Lys	Gly	Pro	Ala	Arg	Tyr	Tyr		
		100						105					110				
Tyr	Tyr	Tyr	Met	Asp	Val	Trp	Gly	Lys	Gly	Thr	Thr	Val	Thr	Val	Ser		
		115					120					125					

Ser

<210> 143
 <211> 126
 <212> PRT
 <213> Homo sapiens

<400> 143

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly		
1				5					10					15			
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Lys	Tyr		
			20					25					30				
Gln	Met	Thr	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val		
		35					40					45					
Ser	Val	Ile	Ser	Ser	Ser	Gly	Gly	Asp	Thr	Ala	Tyr	Ala	Asp	Ser	Val		
		50				55					60						
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr		
65					70					75					80		

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Asp Arg Gly Tyr Cys Ser Gly Asn Thr Cys Tyr Ile Asp Ala
100 105 110

Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser
115 120 125

<210> 144
<211> 119
<212> PRT
<213> Homo sapiens

<400> 144

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr
20 25 30

Trp Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Val Gly Met Ser Thr Tyr Ala Phe Asp Ile Trp Gly Gln Gly
100 105 110

Thr Met Val Thr Val Ser Ser
115

<210> 145
<211> 118
<212> PRT
<213> Homo sapiens

<400> 145

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Leu Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser His Tyr
20 25 30

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

35 40 45
 Ser Ser Ile Arg Ser Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Lys Gly Ser Leu Ser Ser Gly Trp Asp Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 146
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 146

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr
 20 25 30
 Arg Met Glu Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Ser Ile Trp Ser Ser Gly Gly Leu Thr Lys Glu Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Leu Tyr Arg Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 100 105 110
 Ser

<210> 147
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 147

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Tyr
 20 25 30
 Leu Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Ser Ile Val Pro Ser Gly Gly Thr Thr Val Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Leu Trp Phe Gly Glu Trp Asp Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 148
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 148

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Tyr
 20 25 30
 Ser Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Ser Ile Gly Pro Ser Gly Gly Met Thr Arg Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Gln Gly Ile Thr Met Val Gln Gly Ala Met Gly Tyr Trp
 100 105 110
 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 149
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 149

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly		
1				5					10					15			
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Val	Tyr		
			20					25					30				
Ser	Met	Ala	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val		
		35					40					45					
Ser	Gly	Ile	Trp	Pro	Ser	Gly	Gly	Pro	Thr	Ala	Tyr	Ala	Asp	Ser	Val		
	50					55					60						
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr		
65					70					75				80			
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys		
			85						90					95			
Ala	Arg	Glu	Asp	Phe	Trp	Ser	Gly	Leu	Glu	Asp	Val	Trp	Gly	Lys	Gly		
			100					105					110				
Thr	Thr	Val	Thr	Val	Ser	Ser											
			115														

<210> 150
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 150

Gln	Tyr	Glu	Leu	Thr	Gln	Pro	Pro	Ser	Val	Ser	Gly	Thr	Pro	Gly	Gln		
1				5					10					15			
Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Ser	Ser	Asn	Ile	Gly	Ser	Glu		
			20					25					30				
Tyr	Val	Tyr	Trp	Phe	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Arg	Leu	Leu		
		35					40					45					
Ile	Tyr	Arg	Asn	Asp	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser		
	50					55					60						
Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln		
65					70					75				80			
Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu		
			85						90					95			

Pro Gly Trp Cys Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 151
<211> 110
<212> PRT
<213> Homo sapiens

<400> 151

Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1 5 10 15
Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn
20 25 30
Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45
Ile Tyr Asn Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60
Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
65 70 75 80
Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp His Asp Gly Leu
85 90 95
Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 152
<211> 108
<212> PRT
<213> Homo sapiens

<400> 152

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro
1 5 10 15
Gly Glu Arg Ala Thr Leu Ser Cys Lys Ala Ser Gln Ser Val Arg Ala
20 25 30
Phe Ile Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45
Ile Ser Gly Ala Ser Asn Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
50 55 60
Gly Gly Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80
Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Arg
85 90 95

Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 153
<211> 112
<212> PRT
<213> Homo sapiens

<400> 153

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Pro Val Thr Pro
1 5 10 15
Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
20 25 30
Ser Ser Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45
Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
50 55 60
Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80
Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95
Ala Leu Gln Thr Pro Thr Phe Gly Gly Gly Thr Lys Val Asp Ile Lys
100 105 110

<210> 154
<211> 108
<212> PRT
<213> Homo sapiens

<400> 154

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro
1 5 10 15
Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser
20 25 30
Asn Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45
Ile Tyr Gly Ala Ser Thr Arg Ala Thr Gly Val Pro Ala Arg Phe Ser
50 55 60
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Ser Ser Leu Gln
65 70 75 80
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Ala Gly His Pro

85 90 95

Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105

<210> 155
<211> 105
<212> PRT
<213> Homo sapiens

<400> 155

Gln Ser Glu Leu Thr Gln Ala Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15

Ser Ile Thr Leu Ser Cys Thr Gly Ala Thr Arg Asp Val Ser Trp Tyr
20 25 30

Gln Gln His Pro Gly Lys Ala Pro Lys Leu Val Leu Tyr Glu Val Ser
35 40 45

Ser Arg Pro Ser Gly Val Ser Asp Arg Phe Ser Gly Ser Met Ser Gly
50 55 60

Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala
65 70 75 80

Asp Tyr Tyr Cys Ser Ser Thr Thr Ser Arg Ala Pro Arg Val Val Phe
85 90 95

Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 156
<211> 113
<212> PRT
<213> Homo sapiens

<400> 156

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Met His
20 25 30

Arg Asn Gly His His Phe Phe Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Trp Ala Ser Asn Arg Ala Pro Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 157
<211> 108
<212> PRT
<213> Homo sapiens

<400> 157

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Ile
1 5 10 15

Gly Asp Arg Val Thr Ile Ser Cys Gln Ala Ser Gln Asn Ile Asp Asn
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 158
<211> 110
<212> PRT
<213> Homo sapiens

<400> 158

Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn
20 25 30

Tyr Val Tyr Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
85 90 95

Asn Ala Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 159
<211> 112
<212> PRT
<213> Homo sapiens

<400> 159

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

<210> 160
<211> 108
<212> PRT
<213> Homo sapiens

<400> 160

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Arg
20 25 30

Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 161
<211> 106
<212> PRT
<213> Homo sapiens

<400> 161

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr Ala Ser Ile Thr Cys Ala Gly Asp Glu Leu Gly Asn Lys Tyr Ala
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
35 40 45

Gln Asp Arg Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Leu
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Trp Asp Ser Ser Ser Val Ile
85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu
100 105

<210> 162
<211> 108
<212> PRT
<213> Homo sapiens

<400> 162

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser

50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Ser Leu Ser Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asn Ser Phe Pro
85 90 95

Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 163
<211> 110
<212> PRT
<213> Homo sapiens

<400> 163

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Ser Pro Gly Gln
1 5 10 15

Ser Val Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr
20 25 30

Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Phe
35 40 45

Met Ile Tyr Glu Val Asn Lys Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60

Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Val Ser Gly Leu
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Ala Gly Arg
85 90 95

Asn Phe Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 164
<211> 108
<212> PRT
<213> Homo sapiens

<400> 164

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
1 5 10 15

Thr Ala Arg Ile Thr Cys Gly Gly Asn Asn Ile Gly Thr Lys Ile Val
20 25 30

Asn Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Val Val Val Tyr
35 40 45

Asp Asn Ser Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60
 Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly
 65 70 75 80
 Asp Glu Ala Asp Tyr Tyr Cys Gln Leu Trp Asp Ser Ser Ser Asp His
 85 90 95
 Pro Ile Phe Gly Thr Gly Thr Lys Val Thr Val Leu
 100 105

<210> 165
 <211> 317
 <212> PRT
 <213> Homo sapiens

<400> 165

Met Lys Val Leu Trp Ala Ala Leu Leu Val Thr Phe Leu Ala Gly Cys
 1 5 10 15
 Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu
 20 25 30
 Arg Gln Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu
 35 40 45
 Gly Arg Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln
 50 55 60
 Val Gln Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala
 65 70 75 80
 Leu Met Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu
 85 90 95
 Glu Glu Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser
 100 105 110
 Lys Glu Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp
 115 120 125
 Val Arg Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu
 130 135 140
 Gly Gln Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg
 145 150 155 160
 Lys Leu Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Arg
 165 170 175
 Leu Ala Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu
 180 185 190
 Ser Ala Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val

195	200	205
Arg Ala Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg		
210	215	220
Ala Gln Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly		
225	230	235
Ser Arg Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu		
	245	250
		255
Val Arg Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala		
	260	265
		270
Glu Ala Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu		
	275	280
		285
Asp Met Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala		
290	295	300
Val Gly Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His		
305	310	315

<210> 166
 <211> 317
 <212> PRT
 <213> Homo sapiens

<400> 166

Met Lys Val Leu Trp Ala Ala Leu Leu Val Thr Phe Leu Ala Gly Cys
1 5 10 15
Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu
20 25 30
Arg Gln Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu
35 40 45
Gly Arg Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln
50 55 60
Val Gln Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala
65 70 75 80
Leu Met Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu
85 90 95
Glu Glu Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser
100 105 110
Lys Glu Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp
115 120 125
Val Cys Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu
130 135 140

Gly Gln Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg
 145 150 155 160
 Lys Leu Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Arg
 165 170 175
 Leu Ala Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu
 180 185 190
 Ser Ala Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val
 195 200 205
 Arg Ala Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg
 210 215 220
 Ala Gln Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly
 225 230 235 240
 Ser Arg Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu
 245 250 255
 Val Arg Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala
 260 265 270
 Glu Ala Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu
 275 280 285
 Asp Met Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala
 290 295 300
 Val Gly Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His
 305 310 315

<210> 167
 <211> 317
 <212> PRT
 <213> Homo sapiens

<400> 167

Met Lys Val Leu Trp Ala Ala Leu Leu Val Thr Phe Leu Ala Gly Cys
 1 5 10 15
 Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu
 20 25 30
 Arg Gln Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu
 35 40 45
 Gly Arg Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln
 50 55 60
 Val Gln Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala
 65 70 75 80

Leu Met Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu
 85 90 95
 Glu Glu Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser
 100 105 110
 Lys Glu Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp
 115 120 125
 Val Cys Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu
 130 135 140
 Gly Gln Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg
 145 150 155 160
 Lys Leu Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Cys
 165 170 175
 Leu Ala Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu
 180 185 190
 Ser Ala Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val
 195 200 205
 Arg Ala Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg
 210 215 220
 Ala Gln Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly
 225 230 235 240
 Ser Arg Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu
 245 250 255
 Val Arg Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala
 260 265 270
 Glu Ala Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu
 275 280 285
 Asp Met Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala
 290 295 300
 Val Gly Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His
 305 310 315

<210> 168
 <211> 299
 <212> PRT
 <213> Homo sapiens

<400> 168

Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu Arg Gln
 1 5 10 15
 Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu Gly Arg

20					25					30					
Phe	Trp	Asp	Tyr	Leu	Arg	Trp	Val	Gln	Thr	Leu	Ser	Glu	Gln	Val	Gln
		35					40					45			
Glu	Glu	Leu	Leu	Ser	Ser	Gln	Val	Thr	Gln	Glu	Leu	Arg	Ala	Leu	Met
	50					55					60				
Asp	Glu	Thr	Met	Lys	Glu	Leu	Lys	Ala	Tyr	Lys	Ser	Glu	Leu	Glu	Glu
65					70					75					80
Gln	Leu	Thr	Pro	Val	Ala	Glu	Glu	Thr	Arg	Ala	Arg	Leu	Ser	Lys	Glu
				85					90					95	
Leu	Gln	Ala	Ala	Gln	Ala	Arg	Leu	Gly	Ala	Asp	Met	Glu	Asp	Val	Arg
			100					105					110		
Gly	Arg	Leu	Val	Gln	Tyr	Arg	Gly	Glu	Val	Gln	Ala	Met	Leu	Gly	Gln
		115					120					125			
Ser	Thr	Glu	Glu	Leu	Arg	Val	Arg	Leu	Ala	Ser	His	Leu	Arg	Lys	Leu
	130					135					140				
Arg	Lys	Arg	Leu	Leu	Arg	Asp	Ala	Asp	Asp	Leu	Gln	Lys	Arg	Leu	Ala
145					150					155					160
Val	Tyr	Gln	Ala	Gly	Ala	Arg	Glu	Gly	Ala	Glu	Arg	Gly	Leu	Ser	Ala
				165					170					175	
Ile	Arg	Glu	Arg	Leu	Gly	Pro	Leu	Val	Glu	Gln	Gly	Arg	Val	Arg	Ala
			180					185					190		
Ala	Thr	Val	Gly	Ser	Leu	Ala	Gly	Gln	Pro	Leu	Gln	Glu	Arg	Ala	Gln
		195					200					205			
Ala	Trp	Gly	Glu	Arg	Leu	Arg	Ala	Arg	Met	Glu	Glu	Met	Gly	Ser	Arg
	210					215					220				
Thr	Arg	Asp	Arg	Leu	Asp	Glu	Val	Lys	Glu	Gln	Val	Ala	Glu	Val	Arg
225					230					235					240
Ala	Lys	Leu	Glu	Glu	Gln	Ala	Gln	Gln	Ile	Arg	Leu	Gln	Ala	Glu	Ala
				245					250					255	
Phe	Gln	Ala	Arg	Leu	Lys	Ser	Trp	Phe	Glu	Pro	Leu	Val	Glu	Asp	Met
			260					265					270		
Gln	Arg	Gln	Trp	Ala	Gly	Leu	Val	Glu	Lys	Val	Gln	Ala	Ala	Val	Gly
		275					280					285			
Thr	Ser	Ala	Ala	Pro	Val	Pro	Ser	Asp	Asn	His					
	290					295									

<210> 169
 <211> 299
 <212> PRT

<213> Homo sapiens

<400> 169

Lys	Val	Glu	Gln	Ala	Val	Glu	Thr	Glu	Pro	Glu	Pro	Glu	Leu	Arg	Gln	
1				5					10					15		
Gln	Thr	Glu	Trp	Gln	Ser	Gly	Gln	Arg	Trp	Glu	Leu	Ala	Leu	Gly	Arg	
			20					25					30			
Phe	Trp	Asp	Tyr	Leu	Arg	Trp	Val	Gln	Thr	Leu	Ser	Glu	Gln	Val	Gln	
		35					40					45				
Glu	Glu	Leu	Leu	Ser	Ser	Gln	Val	Thr	Gln	Glu	Leu	Arg	Ala	Leu	Met	
	50					55					60					
Asp	Glu	Thr	Met	Lys	Glu	Leu	Lys	Ala	Tyr	Lys	Ser	Glu	Leu	Glu	Glu	
65				70						75				80		
Gln	Leu	Thr	Pro	Val	Ala	Glu	Glu	Thr	Arg	Ala	Arg	Leu	Ser	Lys	Glu	
				85					90					95		
Leu	Gln	Ala	Ala	Gln	Ala	Arg	Leu	Gly	Ala	Asp	Met	Glu	Asp	Val	Cys	
			100					105					110			
Gly	Arg	Leu	Val	Gln	Tyr	Arg	Gly	Glu	Val	Gln	Ala	Met	Leu	Gly	Gln	
		115					120					125				
Ser	Thr	Glu	Glu	Leu	Arg	Val	Arg	Leu	Ala	Ser	His	Leu	Arg	Lys	Leu	
	130					135					140					
Arg	Lys	Arg	Leu	Leu	Arg	Asp	Ala	Asp	Asp	Leu	Gln	Lys	Arg	Leu	Ala	
145					150					155					160	
Val	Tyr	Gln	Ala	Gly	Ala	Arg	Glu	Gly	Ala	Glu	Arg	Gly	Leu	Ser	Ala	
				165					170					175		
Ile	Arg	Glu	Arg	Leu	Gly	Pro	Leu	Val	Glu	Gln	Gly	Arg	Val	Arg	Ala	
			180					185					190			
Ala	Thr	Val	Gly	Ser	Leu	Ala	Gly	Gln	Pro	Leu	Gln	Glu	Arg	Ala	Gln	
		195					200					205				
Ala	Trp	Gly	Glu	Arg	Leu	Arg	Ala	Arg	Met	Glu	Glu	Met	Gly	Ser	Arg	
	210					215					220					
Thr	Arg	Asp	Arg	Leu	Asp	Glu	Val	Lys	Glu	Gln	Val	Ala	Glu	Val	Arg	
225					230					235					240	
Ala	Lys	Leu	Glu	Glu	Gln	Ala	Gln	Gln	Ile	Arg	Leu	Gln	Ala	Glu	Ala	
				245					250					255		
Phe	Gln	Ala	Arg	Leu	Lys	Ser	Trp	Phe	Glu	Pro	Leu	Val	Glu	Asp	Met	
			260					265					270			
Gln	Arg	Gln	Trp	Ala	Gly	Leu	Val	Glu	Lys	Val	Gln	Ala	Ala	Val	Gly	
		275					280					285				

Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His
 290 295

<210> 170
 <211> 299
 <212> PRT
 <213> Homo sapiens

<400> 170

Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu Arg Gln
 1 5 10 15
 Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu Gly Arg
 20 25 30
 Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln Val Gln
 35 40 45
 Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala Leu Met
 50 55 60
 Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu Glu Glu
 65 70 75 80
 Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser Lys Glu
 85 90 95
 Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp Val Cys
 100 105 110
 Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu Gly Gln
 115 120 125
 Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg Lys Leu
 130 135 140
 Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Cys Leu Ala
 145 150 155 160
 Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu Ser Ala
 165 170 175
 Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val Arg Ala
 180 185 190
 Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg Ala Gln
 195 200 205
 Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly Ser Arg
 210 215 220
 Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu Val Arg
 225 230 235 240

Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala Glu Ala
245 250 255

Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu Asp Met
260 265 270

Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala Val Gly
275 280 285

Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His
290 295

<210> 171
<211> 330
<212> DNA
<213> Homo sapiens

<400> 171
caagacatcc agatgaccca gtctccaggc accctgtctt tgtctccagg ggaaagagcc 60
accctctcct gcagggccag tcagagtatt ggcagccgct acttagcctg gtaccagcag 120
aaacctggcc aggctcccag gctcctcatc tatgatgcat ccaagagggc cactggcgctc 180
ccagtcaggt tcagcggcag tggatctggg acagacttca ctctcaccat cagcagcctg 240
gggcctgaag attttgcagt ttattactgc caacagggct acaactggcc tccgtggacg 300
ttcggccaag ggaccaaggt ggaaatcaaa 330

<210> 172
<211> 384
<212> DNA
<213> Homo sapiens

<400> 172
gaagttcaat tgtagagtc tgggtggcggc cttgttcagc ctggtgggtc tttacgtctt 60
tcttgcgctg cttccggatt cactttctct tattacgcta tgcagtgggt tcgccaagct 120
cctggtaaag gtttggagtg ggtttcttct ctctatcctt ctggtggcaa tacttcttat 180
gctgactccg ttaaaggctc cttcactatc tctagagaca actctaagaa tactctctac 240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagaggctgc 300
gggaattacg atttttggag tgcgggctac tactactact acatggacgt ctggggcaaa 360
gggaccacgg tcaccgtctc aagc 384

<210> 173
<211> 324
<212> DNA
<213> Homo sapiens

<400> 173
caagacatcc agatgaccca gtctccatcc tccctgtctg catctgtagg agacagagtc 60
accatcactt gccgggcaag tcagcgcata agaaagaatt tacattggta tcagcagaaa 120
ccagggaag cccctaacct cctgatctat gatgcatcca gtaacgaacg tgggggtccca 180
tcaaggttca gtggcagagg atctgggaca gagttcactc tcaccatcag cagtctacaa 240
cctgaagatc ttgcaactta ctactgtcaa cagagtttca gtagccctg gacgttcggc 300
caagggacca aggtggaaat caaa 324

<210> 174
<211> 345
<212> DNA
<213> Homo sapiens

<400> 174
gaagttcaat tgtagagtc tgggtggcggc cttgttcagc ctggtgggtc ttacgtctt 60
tcttgcgctg cttccggatt cactttctct aagtactcta tgcattgggt tcgccaagct 120
cctggtaaag gtttggagtg ggtttctggt atctattctt ctggtggcaa gactatttat 180
gctgactccg ttaaaggctg cttcactatc tctagagaca accctaagaa tactctctac 240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagatcgctt 300
gatcttgact actggggcca gggaaccctg gtcaccgtct caagc 345

<210> 175
<211> 324
<212> DNA
<213> Homo sapiens

<400> 175
caagacatcc agatgaccca gtctccatcc tccctgtctg catctgtagg agacagagtc 60
accatcactt gccggacaag tcaggacatt agaaatcatt taggctgggt tcagcagaaa 120
ccagggaag cccctcagcg cctgattcgt gaagcatcca ttttaciaag tgggggtccca 180
tcaacatttt acggcagtg atatgggaga gaattcactc tcacaatcag cagcctgcag 240
cctgaggatt ttgcaaccta ttattgtcta caatatgatt ctttcccata cacctttggc 300
caggggacca agctggagat caaa 324

<210> 176
<211> 345
<212> DNA
<213> Homo sapiens

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<400> 176
gaagttcaat tgttagagtc tgggtggcggc cttgttcagc ctggtgggtc tttacgtctt      60
tcttgcgctg cttccggatt cactttctct atgtacatga tggattgggt tcgccaagct      120
cctggtaaag gtttggagtg gggttcttct atctggcctt ctggtggcca gacttggtat      180
gctgactccg ttaaagggtc cttcactatc tctagagaca actctaagaa tactctctac      240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagatccgtc      300
ctccttgact actggggcca ggaaccctg gtcaccgtct caagc                        345

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<210> 177
<211> 330
<212> DNA
<213> Homo sapiens

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<400> 177
cagtacgaat tgactcagcc accctcagtg tctgggaccc ccgggcagag ggtcaccatc      60
tcttgttctg gaagcagttc caacatcgga agtgagtatg tgtactgggt ccagcagctc      120
ccaggaacgg cccccagact cctcatctat aggaatgac agcgccctc aggggtccct      180
gaccgattct ctggctccaa gtctggcacc tcagcctccc tggccatcag tggcctccag      240
tctgaggatg aggctgatta ttactgtgca gcatgggatg acagcctgcc tggttgggtg      300
tccggcgggc ggaccaagct gaccgtccta                        330

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<210> 178
<211> 369
<212> DNA
<213> Homo sapiens

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```

<400> 178
gaagttcaat tgttagagtc tgggtggcggc cttgttcagc ctggtgggtc tttacgtctt      60
tcttgcgctg cttccggatt cactttctct ttttacggta tggtttgggt tcgccaagct      120
cctggtaaag gtttggagtg gggttcttct atctctcctt ctggtggcta tactctttat      180
gctgactccg ttaaagggtc cttcactatc tctagagaca actctaagaa tactctctac      240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gaaagatggg      300
agacggcccc actatgggtc ggggaggtgg gcctactggg gccagggaac cctggtcacc      360
gtctcaagc                                                369

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```

<210> 179
<211> 330

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<212> DNA
 <213> Homo sapiens

 <400> 179
 cagagcgaat tgactcagcc accctcagcg tctgggaccc ccgggcagag ggtcaccatc 60
 tcttggttctg gaagcagctc caacatcgga agtaatactg taaactggta ccagcagctc 120
 ccaggaacgg cccccaaact cctcatctat aataataatc agcggccctc aggggtccct 180
 gaccgattct ctggctccaa gtctggcacc tcagcctccc tggccatcag tgggctccag 240
 tctgaggatg aggctgatta ttactgtgca gcatggcatg acggcctgaa tgggtccggtg 300
 ttcggcggag ggaccaagct gaccgtccta . 330

<210> 180
 <211> 354
 <212> DNA
 <213> Homo sapiens

 <400> 180
 gaagttcaat tgtagagtc tgggtggcggg cttgttcagc ctggtgggtc tttacgtctt 60
 tcttgcgctg cttccggatt cactttctct cgttacctta tgatgtgggt tcgccaagct 120
 cctggtaaag gtttggagtg ggtttctgtt atctctcctt ctggtggccg tacttggtat 180
 gctgactccg tttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac 240
 ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgt gaggagtata 300
 gcagcagctg gaactgacta ctggggccag ggaaccctgg tcaccgtctc aagc 354

<210> 181
 <211> 321
 <212> DNA
 <213> Homo sapiens

 <400> 181
 gacatccaga tgacccagtc tccagccacc ctgtctttgt ctccagggga aagagccacc 60
 ctctcttgta aggccagtca gagtgttcgc gccttcatag cctggtacca gcagaaacct 120
 ggccaggctc ccaggctcct catctctggt gcatccaaca gggccactgg catcccagac 180
 aggttcagtg gcggtgggtc tgggacagac ttcactctca ccatcagcag actggagcct 240
 gaagattttg cagtgtatta ctgtcagcag tacggtagtt cacggtacac ttttggccag 300
 gggaccaagc tggagatcaa a 321

<210> 182
 <211> 339

<212> DNA
<213> Homo sapiens

<400> 182
gaagttcaat tgtagagtc tgggtggcggc cttgttcagc ctggtgggtc ttacgtctt 60
tcttgcgctg cttccggatt cactttctct aattacttta tgatttgggt tcgccaagct 120
cctggtaaag gtttggagtg ggtttcttgg atctctcctt ctggtggcac tactcagtat 180
gctgactccg ttaaagggtcg cttcactatc tctagagaca actctaagaa tactctctac 240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagaagcc 300
ggctactggg gccagggaac cctggtcacc gtctcaagc 339

<210> 183
<211> 333
<212> DNA
<213> Homo sapiens

<400> 183
gacatccaga tgaccagtc tccatcctcc ctgcccgtca cccctggaga gccggcctcc 60
atctcctgca ggtctagtca gagcctccta catagtagtg gatacaacta tttggattgg 120
tacctgcaga agccaggaca gtctccacaa ctctgattt atttgggttc taatcgggcc 180
tccgggggtcc ctgacagggt cactggcagt ggatcaggca cagattttac actgaaaatc 240
agcagagtgg aggctgagga tgttgggggt tattactgca tgcaagctct acaaaccccc 300
actttcggcg gagggaccaa ggtggacatc aaa 333

<210> 184
<211> 357
<212> DNA
<213> Homo sapiens

<400> 184
gaagttcaat tgtagagtc tgggtggcggc cttgttcagc ctggtgggtc ttacgtctt 60
tcttgcgctg cttccggatt cactttctct gcttactata tgggttgggt tcgccaagct 120
cctggtaaag gtttggagtg ggtttctgtt atccgtcctt ctggtggcaa gactaagtat 180
gctgactccg ttaaagggtcg cttcactatc tctagagaca actctaagaa tactctctac 240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagaggcccg 300
catggtcagg ggggtgttga ctctggggc caggaaccc tggtcaccgt ctcaagc 357

<210> 185
<211> 321

<212> DNA
 <213> Homo sapiens

<400> 185

gacatccaga tgacccagtc tccagccacc ctgtctgtgt ctccagggga aagagccacc	60
ctctcctgta gggccagtca gagtgtagc agcaacttag cctggtagca gcagaaacct	120
ggccaggctc ccaggctcct catctatggt gcatccacca gggccactgg cgtcccagcc	180
aggttcagtg gcagtgggtc tgggacagac ttcactctct ccatcagcag cctgcagcct	240
gaagactttg caacttatta ctgtcaacag tatgctggtc accccatcac cttcggccaa	300
gggacccgac tggagattaa a	321

<210> 186
 <211> 378
 <212> DNA
 <213> Homo sapiens

<400> 186

gaagttcaat tgtagagtc tgggtggcggc cttgttcagc ctgggtgggtc tttacgtctt	60
tcttgcgctg cttccggatt cactttctct gagtacttta tgacttgggt tcgccaagct	120
cctggtaaag gtttggagtg ggtttcttct atccgtcctt ctgggtggcaa gactcgttat	180
gctgactccg ttaaaggctc cttcactatc tctagagaca actctaagaa tactctctac	240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagttagt	300
cgctactata ataatgggtc ttatcgcctt gatgcatttg atatctgggg cccagggaca	360
gtggtcaccg tctcaagc	378

<210> 187
 <211> 315
 <212> DNA
 <213> Homo sapiens

<400> 187

cagagcgaat tgactcaggc tgcctccgtg tctgggtctc ctggacagtc gatcaccctc	60
tcttgcaactg gagccaccag ggacgtctcc tggtagcagc aacacccagg caaggcccc	120
aaactcgtcc tttatgaagt cagtagtcgc ccctcaggcg tttccgatcg cttctctggc	180
tccatgtctg gcaacacggc ctccctgacc atctctggac tccaggctga ggacgaggct	240
gattattact gctcctcaac cacaagtcgc gccctcgcg tggttttcgg cggagggacc	300
aaactgaccg tccta	315

<210> 188
 <211> 354
 <212> DNA
 <213> Homo sapiens

<400> 188
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 tcttgcgctg cttccggatt cactttctct gcttacgta tggcttgggt tcgccaagct 120
 cctggtaaag gtttggagtg ggtttcttat atctcttctt ctggtggcgt tacttcttat 180
 gctgactccg ttaaaggctc cttcactatc tctagagaca actctaagaa tactctctac 240
 ttgcagatga agagcttaag ggctgaggac actgcagtct actattgtgc gagaggcacg 300
 cacctcccgg gggttgacta ctggggccag ggaaccctgg tcaccgtctc aagc 354

<210> 189
 <211> 336
 <212> DNA
 <213> Homo sapiens

<400> 189
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 atctcctgca gatctagtca gagcctcatg cataggaatg gacaccactt cttcgattgg 120
 tacctgcaga agccagggca gtctccacag ctctgatct attgggcttc taatcgggcc 180
 cccgggggtcc ctgacagggt cagtggcagt ggatcaggca cagactttac actaaaaatc 240
 agcagagtgg aggctgagga tgttgggatt tattactgca tgcaagctct acaaaccctg 300
 tacacttttg gccaggggac caagctggag atcaaa 336

<210> 190
 <211> 339
 <212> DNA
 <213> Homo sapiens

<400> 190
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 tcttgcgctg cttccggatt cactttctct gggtacatta tggcttgggt tcgccaagct 120
 cctggtaaag gtttggagtg ggtttctggt atcggttctt ctggtggcct tactgcttat 180
 gctgactccg ttaaaggctc cttcactatc tctagagaca actctaagaa tactctctac 240
 ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagaagcc 300
 ggctactggg gccaggggac cctggtcacc gtctcaagc 339

<210> 191
 <211> 321
 <212> DNA
 <213> Homo sapiens

<400> 191
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 atctcttgcc aggcgagtc aaacattgac aactatttaa attggtatca gcagaaacca 120
 gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180
 aggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag tctgcaacct 240
 gaagattttg caacttacta ctgtcaacag agttacagta cccctcgaac gttcggccaa 300
 gggaccaagg tggaatcaa a 321

<210> 192
 <211> 387
 <212> DNA
 <213> Homo sapiens

<400> 192
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 tcttgcgctg cttccggatt cactttctct tcttacccta tggtttgggt tcgccaagct 120
 cctggtaaag gtttggagtg ggtttctggt atctggtctt ctggtggcct tacttattat 180
 gctgactccg ttaaaggctc cttcactatc tctagagaca actctaagaa tactctctac 240
 ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagagggc 300
 tcggccggag tggttaaagg gccggcccg tactactact actacatgga cgtctggggc 360
 aaagggacca cggtcaccgt ctcaagc 387

<210> 193
 <211> 330
 <212> DNA
 <213> Homo sapiens

<400> 193
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 ccaggaacgg cccccaaact cctcatctat aggaataatc agcggccctc aggggtccct 180
 gaccgattct ctggctccaa gtctggcacc tcagcctccc tggccatcag tgggctccag 240
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 ttcggcggag ggaccaagct gaccgtccta 330

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<210> 194
<211> 378
<212> DNA
<213> Homo sapiens

<400> 194
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tcttgcgctg cttccggatt cactttctct aagtaccaga tgacttgggt tcgccaagct      120
cctggtaaag gtttggagtg ggtttctgtt atctcttctt ctggtggcga tactgcttat      180
gctgactccg ttaaaggctc cttcactatc tctagagaca actctaagaa tactctctac      240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagatcgg      300
ggttattgta gtggtataac ttgctatatt gatgcttttg atatctgggg ccaagggaca      360
atggtcaccg tctcaagc                                     378

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<210> 195
<211> 333
<212> DNA
<213> Homo sapiens

<400> 195
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atctcctgca agtctagtca gagcctcctg catagtaatg gatacaacta ttagattgg      120
tacctgcaga aaccagggca gtctccacag ctctgatct ctttgggttc taatcgggcc      180
tccgggggtcc ctgccagggt cagtggcagt ggctcaggca cagattttac actgaaaatc      240
agcagagtgg aggctgagga tgttggagtt tactactgca tgcaagctct acaaactatc      300
accttcggcc aagggacacg actggagatt aaa                                     333

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<210> 196
<211> 357
<212> DNA
<213> Homo sapiens

<400> 196
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tcttgcgctg cttccggatt cactttctct cttactgga tgttttgggt tcgccaagct      120
cctggtaaag gtttggagtg ggtttctggt atcgtttctt ctggtggcat gactggttat      180
gctgactccg ttaaaggctc cttcactatc tctagagaca actctaagaa tactctctac      240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagtgggg      300

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atgtccacct atgcttttga tatctggggc caagggacaa tggtcaccgt ctcaagc 357

<210> 197
 <211> 321
 <212> DNA
 <213> Homo sapiens

<400> 197
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 gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180
 aggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag tctgcaacct 240
 gaagattttg caacttacta ctgtcaacag agttacagta ccccgctcac tttcggcgga 300
 gggaccaagg tggagatcaa a 321

<210> 198
 <211> 354
 <212> DNA
 <213> Homo sapiens

<400> 198
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 tcttgcgctg cttccggatt cactttctct cattacggta tgtcttgggt tcgccaagct 120
 cctggtaaag gtttggagtg gggttcttct atccgttctt ctggtggccg tacttggtat 180
 gctgactccg tttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac 240
 ttgcagatga acagcttaag ggctgaggac actgcagttt actattgtgc gaaaggctcc 300
 cttagcagtg gctgggacta ctggggccag ggaaccctgg tcaccgtctc aagc 354

<210> 199
 <211> 318
 <212> DNA
 <213> Homo sapiens

<400> 199
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 cagtcccctg tgctgggtcat ctatcaagat aggaagcggc cctcagggat ccctgagcga 180
 ttctctgggt cccactctgg gaacacagcc actctgacca tcagcgggac ccaggctctc 240
 gatgaggctg actattactg tcagtcgtgg gacagcagct ctgtgatatt cggcggcggg 300

accaaggtga ccgtccta 318

<210> 200
<211> 339
<212> DNA
<213> Homo sapiens

<400> 200
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tcttgcgctg cttccggatt cactttctct aattaccgta tggagtgggt tcgccaagct 120
cctggtaaag gtttggagtg ggtttcttct atctggtctt ctggtggcct tactaaggag 180
gctgactccg ttaaagggtcg cttcactatc tctagagaca actctaagaa tactctctac 240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagaggcctg 300
taccggtggg gccagggaac cctggtcacc gtctcaagc 339

<210> 201
<211> 330
<212> DNA
<213> Homo sapiens

<400> 201
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tcctgcactg gaaccagcag tgacgttggt gggtataact atgtctcctg gtaccaacag 120
catccaggca aagcccccaa attcatgatt tatgaggtca ataagcggcc ctcaggggtc 180
cctgatcgct tctctggctc caagtctggc aacacggcct ccctgaccgt ctctgggctc 240
caggctgagg atgaggctga ttattactgc agctcatatg caggcaggaa ctttgtggta 300
ttcggcggag ggaccaagct gaccgtccta 330

<210> 202
<211> 366
<212> DNA
<213> Homo sapiens

<400> 202
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tcttgcgctg cttccggatt cactttctct tgggtactcta tgggttgggt tcgccaagct 120
cctggtaaag gtttggagtg ggtttcttct atcggtcctt ctggtggcat gactcgttat 180
gctgactccg ttaaagggtcg cttcactatc tctagagaca actctaagaa tactctctac 240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagatcaa 300

gggattacta tggttcaggg agctatgggc tactggggcc agggaaccct ggtcaccgtc 360
tcaagc 366

<210> 203
<211> 324
<212> DNA
<213> Homo sapiens

<400> 203
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caggcccctg tgggtggtcgt ctatgataat agcgaccggc cctcagggat ccctgagcga 180
ttctctgggt ccaactctgg gaacacggcc accctgacca tcagcagggt cgaagccggg 240
gatgaggccg actattactg tcagctgtgg gatagtagta gtgaccatcc gatcttcgga 300
actgggacca aggtcaccgt ccta 324

<210> 204
<211> 357
<212> DNA
<213> Homo sapiens

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tcttgcgctg cttccggatt cactttctct gtttactcta tggcttgggt tcgccaagct 120
cctggtaaag gtttggagtg gggttctggt atctggcctt ctggtggccc tactgcttat 180
gctgactccg ttaaagggtcg cttcactatc tctagagaca actctaagaa tactctctac 240
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagaagat 300
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<212> DNA
<213> Homo sapiens

<400> 205
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gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180
aggttcagtg gcagtggatc tgggacagaa ttctctctct ccatcagcag cctgcagcct 240

gaagattttg caacttacta ttgtcaacag gctaacagtt tccctctcac tttcggcgga 300
 gggaccaagg tggagatcaa a 321

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 <211> 354
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 tcttgcgctg cttccggatt cactttctct tggtagctta tgcattgggt tcgccaagct 120
 cctggtaaag gtttggagtg ggtttcttct atcggttcctt ctggtggcac tactgtttat 180
 gctgactccg ttaaagggtc cttcactatc tctagagaca actctaagaa tactctctac 240
 ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagaccta 300
 tggttcgggg agtgggacta ctggggccag ggaaccctgg tcaccgtctc aagc 354

<210> 207
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 207

Gly Val Leu Asp His Tyr
 1 5

<210> 208
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 208

Gly Ile Leu His Asp Tyr
 1 5

<210> 209
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 <212> PRT
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<400> 209

Gly Val Leu Leu Asp Lys
 1 5

<210> 210
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<212> PRT
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Gly Val Leu Phe Asp Asn
1 5

<210> 211
<211> 11
<212> PRT
<213> Homo sapiens

<400> 211

Arg Ala Ser Gln Asn Ile His Thr Trp Leu Ala
1 5 10

<210> 212
<211> 16
<212> PRT
<213> Homo sapiens

<400> 212

Arg Ser Ser Gln Ser Leu Ala Ser Ser Asp Gly Asn Met Tyr Leu Asn
1 5 10 15

<210> 213
<211> 11
<212> PRT
<213> Homo sapiens

<400> 213

Arg Thr Ser Gln Gly Ile Arg Asn His Leu Gly
1 5 10

<210> 214
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<212> PRT
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<400> 214

Arg Ala Ser Gln Thr Ile Ser Arg Tyr Leu Asn
1 5 10

<210> 215

<211> 16
<212> PRT
<213> Homo sapiens

<400> 215

Arg Ser Ser Arg Asn Leu Leu His Arg Asn Gly Asn Asn Tyr Leu Asp
1 5 10 15

<210> 216
<211> 11
<212> PRT
<213> Homo sapiens

<400> 216

Arg Ala Ser His Gly Ile Asn Gly Tyr Leu Ala
1 5 10

<210> 217
<211> 142
<212> PRT
<213> Homo sapiens

<400> 217

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Pro Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Gly Ile Trp Ser Ser Gly Gly Leu Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Asp Gly Ser Ala Arg Val Val Lys Gly Pro Arg Arg Tyr Tyr
100 105 110

Tyr Tyr Tyr Ile Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser

115 120 125

Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro
130 135 140

<210> 218
<211> 11
<212> PRT
<213> Homo sapiens

<400> 218

Arg Thr Ser Gln Asp Ile Gly Asn His Leu Ala
1 5 10

<210> 219
<211> 11
<212> PRT
<213> Homo sapiens

<400> 219

Gln Ala Ser Gln Asp Ile Ser Asn Tyr Leu Asn
1 5 10

<210> 220
<211> 11
<212> PRT
<213> Homo sapiens

<400> 220

Arg Ala Ser Gln Asp Ile Tyr Arg Trp Leu Val
1 5 10

<210> 221
<211> 11
<212> PRT
<213> Homo sapiens

<400> 221

Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
1 5 10

<210> 222
<211> 11
<212> PRT
<213> Homo sapiens

<400> 222

Arg Ala Ser Gln Asp Ile Arg Ser Tyr Leu Ala
1 5 10

<210> 223
<211> 11
<212> PRT
<213> Homo sapiens

<400> 223

Arg Ala Ser Gln Asp Ile Ser Ile His Leu Ala
1 5 10

<210> 224
<211> 11
<212> PRT
<213> Homo sapiens

<400> 224

Arg Ala Ser Lys Ser Val Ala Ser Tyr Val Ala
1 5 10

<210> 225
<211> 16
<212> PRT
<213> Homo sapiens

<400> 225

Arg Ser Ser Gln Ser Leu Leu His Ser Asn Gly Asn Thr Tyr Leu Asp
1 5 10 15

<210> 226
<211> 11
<212> PRT
<213> Homo sapiens

<400> 226

Arg Ala Ser Arg Gly Ile Arg Asn Asn Leu Ala
1 5 10

<210> 227
<211> 112
<212> PRT
<213> Homo sapiens

<400> 227

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro

1	5	10	15												
Gly	Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	His
		20					25						30		
Ser	Thr	Gly	Tyr	Asn	Tyr	Leu	Asp	Trp	Tyr	Leu	Gln	Lys	Pro	Gly	Gln
		35					40					45			
Ser	Pro	Gln	Leu	Leu	Ile	Tyr	Leu	Gly	Ser	Asn	Arg	Ala	Ser	Gly	Val
	50					55				60					
Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys
65					70					75					80
Ile	Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Ile	Tyr	Tyr	Cys	Met	Gln
				85					90					95	
Ala	Leu	Gln	Thr	Pro	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Leu	Glu	Ile	Lys
			100					105					110		

<210> 228
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 228

Arg	Ala	Ser	Gln	Gly	Ile	Thr	Asn	Tyr	Leu	Ala
1			5						10	

<210> 229
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 229

Arg	Ala	Ser	Gln	Val	Ile	Gly	Asn	Tyr	Leu	Ala
1			5						10	

<210> 230
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 230

Arg	Ala	Ser	Gln	Ser	Val	Lys	Met	Asn	Leu	Ala
1			5						10	

<210> 231
 <211> 11
 <212> PRT

<213> Homo sapiens

<400> 231

Arg Ala Ser Gln Thr Ile Asn Asn Trp Leu Ala
1 5 10

<210> 232

<211> 11

<212> PRT

<213> Homo sapiens

<400> 232

Arg Ala Ser Gln Asp Ile Glu Asn Tyr Leu Ala
1 5 10

<210> 233

<211> 11

<212> PRT

<213> Homo sapiens

<400> 233

Arg Ala Ser Gln Asp Ile His Thr Trp Leu Ala
1 5 10

<210> 234

<211> 11

<212> PRT

<213> Homo sapiens

<400> 234

Arg Ala Ser Gln Gly Ile Ser Ser Trp Leu Ala
1 5 10

<210> 235

<211> 11

<212> PRT

<213> Homo sapiens

<400> 235

Arg Ala Ser Gln Ser Ile Ser Arg Tyr Leu Ala
1 5 10

<210> 236

<211> 11

<212> PRT

<213> Homo sapiens

<400> 236

Arg Ala Ser Gln Asp Ile Arg Asn Ala Leu Gly
1 5 10

<210> 237

<211> 112

<212> PRT

<213> Homo sapiens

<400> 237

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
20 25 30

Gly Asn Gly Asn Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Met Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Pro Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 238

<211> 11

<212> PRT

<213> Homo sapiens

<400> 238

Arg Ala Ser Gln Asp Ile Arg Asn Asp Leu Gly
1 5 10

<210> 239

<211> 11

<212> PRT

<213> Homo sapiens

<400> 239

Arg Ala Ser Gln Ser Val Asp Ser Trp Leu Ala
1 5 10

<210> 240
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 240

Gly Ala Ser Ser Leu Gln Ser
 1 5

<210> 241
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 241

Lys Val Ser Asp Arg Asp Ser
 1 5

<210> 242
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 242

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
 1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
 20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser His Arg Ala Ser Gly Val
 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
 85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105 110

<210> 243
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 243

Ala Thr Ser Thr Leu His Ser
1 5

<210> 244
<211> 7
<212> PRT
<213> Homo sapiens

<400> 244

Met Gly Ser Asn Arg Ala Ser
1 5

<210> 245
<211> 7
<212> PRT
<213> Homo sapiens

<400> 245

Ala Ala Ser Lys Leu Gln Ser
1 5

<210> 246
<211> 112
<212> PRT
<213> Homo sapiens

<400> 246

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
20 25 30

Ser Thr Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 247

<211> 7
<212> PRT
<213> Homo sapiens

<400> 247

Gly Ala Ser Thr Val Gln Ser
1 5

<210> 248
<211> 7
<212> PRT
<213> Homo sapiens

<400> 248

Ala Ala Ser Ser Leu Gln Asn
1 5

<210> 249
<211> 7
<212> PRT
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<400> 249

Ala Ala Phe Asn Leu Gln Ser
1 5

<210> 250
<211> 7
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<400> 250

Ala Ala Ser Thr Leu Gln Thr
1 5

<210> 251
<211> 7
<212> PRT
<213> Homo sapiens

<400> 251

Asp Ala Ser Asn Arg Ala Thr
1 5

<210> 252
<211> 7
<212> PRT

<213> Homo sapiens

<400> 252

His Ala Ser Thr Leu Gln Ser
1 5

<210> 253

<211> 7

<212> PRT

<213> Homo sapiens

<400> 253

Gly Ala Tyr Lys Leu Gln Tyr
1 5

<210> 254

<211> 7

<212> PRT

<213> Homo sapiens

<400> 254

Gly Ala Ser His Leu Gln Ser
1 5

<210> 255

<211> 7

<212> PRT

<213> Homo sapiens

<400> 255

Gly Ala Ser Ser Arg Ala Thr
1 5

<210> 256

<211> 7

<212> PRT

<213> Homo sapiens

<400> 256

Lys Thr Ser Asn Leu Gln Ser
1 5

<210> 257

<211> 7

<212> PRT

<213> Homo sapiens

<400> 257

Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 258

<211> 7

<212> PRT

<213> Homo sapiens

<400> 258

Val Ala Ser Ser Leu Gln Asp
1 5

<210> 259

<211> 7

<212> PRT

<213> Homo sapiens

<400> 259

Ala Ala Ser Asn Leu Gln Ser
1 5

<210> 260

<211> 7

<212> PRT

<213> Homo sapiens

<400> 260

Thr Ala Ser Arg Leu Gln Ser
1 5

<210> 261

<211> 7

<212> PRT

<213> Homo sapiens

<400> 261

Lys Ala Ser Ser Leu Gln Ser
1 5

<210> 262

<211> 9

<212> PRT

<213> Homo sapiens

<400> 262

Gln Gln Ala Asn Ser Phe Pro Phe Ala
1 5

<210> 263
<211> 9
<212> PRT
<213> Homo sapiens

<400> 263

Met Gln Gly Thr His Trp Pro Pro Thr
1 5

<210> 264
<211> 112
<212> PRT
<213> Homo sapiens

<400> 264

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser His Arg Ala Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

<210> 265
<211> 9
<212> PRT
<213> Homo sapiens

<400> 265

Leu Gln Tyr Asn Asn Tyr Pro Phe Thr
1 5

<210> 266
<211> 8

<212> PRT
<213> Homo sapiens

<400> 266

Met Gln Ala Leu Gln Ala Trp Thr
1 5

<210> 267
<211> 9
<212> PRT
<213> Homo sapiens

<400> 267

Gln Gln Tyr Asp Ser Tyr Pro Phe Thr
1 5

<210> 268
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<212> PRT
<213> Homo sapiens

<400> 268

Gln Gln Tyr Asp Ala Phe Pro Phe Thr
1 5

<210> 269
<211> 9
<212> PRT
<213> Homo sapiens

<400> 269

Gln Gln Tyr Lys Thr Tyr Pro Phe Thr
1 5

<210> 270
<211> 9
<212> PRT
<213> Homo sapiens

<400> 270

Gln Gln Ala Asn Ser Phe Pro Trp Thr
1 5

<210> 271
<211> 9
<212> PRT
<213> Homo sapiens

<400> 271

Leu Gln Phe Asn Thr Tyr Pro Phe Thr
1 5

<210> 272

<211> 9

<212> PRT

<213> Homo sapiens

<400> 272

Leu Gln His Asp Ser Tyr Pro Phe Thr
1 5

<210> 273

<211> 9

<212> PRT

<213> Homo sapiens

<400> 273

Gln Gln Tyr Glu Ser Tyr Pro Phe Thr
1 5

<210> 274

<211> 8

<212> PRT

<213> Homo sapiens

<400> 274

Gln Gln Tyr Tyr Asn Pro Tyr Thr
1 5

<210> 275

<211> 9

<212> PRT

<213> Homo sapiens

<400> 275

Leu Gln Pro Glu Thr Tyr Pro Trp Thr
1 5

<210> 276

<211> 9

<212> PRT

<213> Homo sapiens

<400> 276

Leu Gln Tyr Gln Thr Tyr Pro Phe Thr
1 5

<210> 277
<211> 9
<212> PRT
<213> Homo sapiens

<400> 277

Gln Gln Ser Ser Ser Ile Pro Tyr Thr
1 5

<210> 278
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<212> PRT
<213> Homo sapiens

<400> 278

Gln Gln Tyr Ala Asn Trp Pro Phe His
1 5

<210> 279
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<213> Homo sapiens

<400> 279

Gln Gln Tyr Lys Ala Phe Pro Trp Thr
1 5

<210> 280
<211> 9
<212> PRT
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<400> 280

Gln Gln Tyr Ser Ser Tyr Pro Phe Thr
1 5

<210> 281
<211> 9
<212> PRT
<213> Homo sapiens

<400> 281

Leu Gln His Asn Thr Tyr Pro Leu Thr

1

5

<210> 282
<211> 9
<212> PRT
<213> Homo sapiens

<400> 282

Leu Gln His Asn Ser Tyr Pro Leu Thr
1 5

<210> 283
<211> 9
<212> PRT
<213> Homo sapiens

<400> 283

Gln Gln Tyr Ala Thr Leu Pro Arg Thr
1 5

<210> 284
<211> 9
<212> PRT
<213> Homo sapiens

<400> 284

Leu Gln Tyr Asn Ser Tyr Pro Phe Thr
1 5

<210> 285
<211> 9
<212> PRT
<213> Homo sapiens

<400> 285

Leu Gln Gln Lys Asn Tyr Pro Leu Thr
1 5

<210> 286
<211> 9
<212> PRT
<213> Homo sapiens

<400> 286

Gln Gln Tyr Lys Ser Phe Pro Phe Thr
1 5

<210> 287
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 287

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Val	Ser	Ala	Ser	Val
1				5					10					15	
Gly	Asp	Arg	Val	Thr	Ile	Ser	Cys	Arg	Ala	Ser	Gln	Asn	Ile	His	Thr
			20					25					30		
Trp	Leu	Ala	Trp	Phe	Gln	Gln	Lys	Pro	Gly	Glu	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Gly	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln
65					70					75					80
Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ala	Asn	Ser	Phe	Pro
				85					90					95	
Phe	Ala	Phe	Gly	Gln	Gly	Thr	Arg	Leu	Glu	Ile	Lys				
			100					105							

<210> 288
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 288

Gln	Asp	Ile	Val	Met	Thr	Gln	Thr	Pro	Pro	Ser	Leu	Pro	Val	Asn	Pro
1				5					10					15	
Gly	Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Ala	Ser
			20					25					30		
Ser	Asp	Gly	Asn	Met	Tyr	Leu	Asn	Trp	Phe	His	Gln	Arg	Pro	Gly	Gln
		35					40					45			
Ser	Pro	Arg	Arg	Leu	Ile	Tyr	Lys	Val	Ser	Asp	Arg	Asp	Ser	Gly	Val
	50					55					60				
Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys
65					70					75					80
Ile	Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln
				85					90					95	
Gly	Thr	His	Trp	Pro	Pro	Thr	Phe	Gly	Pro	Gly	Thr	Lys	Val	Asp	Ile
			100					105					110		

Lys

<210> 289
<211> 108
<212> PRT
<213> Homo sapiens

<400> 289

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val
1				5					10					15	
Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Thr	Ser	Gln	Gly	Ile	Arg	Asn
			20					25					30		
His	Leu	Gly	Trp	Phe	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Gln	Arg	Leu
		35					40					45			
Ile	Arg	Glu	Ala	Ser	Ile	Leu	Gln	Ser	Gly	Val	Pro	Ser	Thr	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln
65					70					75					80
Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Leu	Gln	Tyr	Asp	Ser	Phe	Pro
			85						90					95	
Tyr	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Leu	Glu	Ile	Lys				
			100					105							

<210> 290
<211> 108
<212> PRT
<213> Homo sapiens

<400> 290

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Pro	Ser	Leu	Ser	Ala	Ser	Val
1				5					10					15	
Gly	Asp	Arg	Val	Thr	Ile	Ser	Cys	Arg	Ala	Ser	Gln	Thr	Ile	Ser	Arg
			20					25					30		
Tyr	Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Ala	Thr	Ser	Thr	Leu	His	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Gly	Leu	Gln
65					70					75					80
Pro	Glu	Asp	Ser	Ala	Thr	Tyr	Tyr	Cys	Leu	Gln	Tyr	Asn	Asn	Tyr	Pro

	85	90	95
Phe Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys			
	100	105	
<210>	291		
<211>	112		
<212>	PRT		
<213>	Homo sapiens		
<400>	291		
Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro			
1	5	10	15
Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Arg Asn Leu Leu His			
	20	25	30
Arg Asn Gly Asn Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln			
	35	40	45
Ser Pro Gln Leu Leu Ile Tyr Met Gly Ser Asn Arg Ala Ser Gly Val			
	50	55	60
Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys			
65	70	75	80
Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln			
	85	90	95
Ala Leu Gln Ala Trp Thr Phe Gly Pro Gly Thr Arg Leu Asp Ile Lys			
	100	105	110

<210> 292
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400>	292		
Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Ala Ser Val			
1	5	10	15
Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser His Gly Ile Asn Gly			
	20	25	30
Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Arg Ala Pro Lys Ser Leu			
	35	40	45
Ile Tyr Ala Ala Ser Lys Leu Gln Ser Gly Val Pro Ser Lys Phe Ser			
	50	55	60
Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Asn Ser Leu Gln			
65	70	75	80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asp Ser Tyr Pro
85 90 95

Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 293
<211> 112
<212> PRT
<213> Homo sapiens

<400> 293

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 294
<211> 108
<212> PRT
<213> Homo sapiens

<400> 294

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Thr Ser Gln Asp Ile Gly Asn
20 25 30

His Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Gln Arg Leu
35 40 45

Ile Arg Glu Ala Ser Ile Leu Gln Ser Gly Val Pro Ser Thr Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Ser Tyr Tyr Cys Gln Gln Tyr Asp Ala Phe Pro
85 90 95

Phe Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 295
<211> 108
<212> PRT
<213> Homo sapiens

<400> 295

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Asp Ile Ser Asn
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Gln Arg Leu
35 40 45

Ile Tyr Gly Ala Ser Thr Val Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Lys Thr Tyr Pro
85 90 95

Phe Thr Phe Gly Gln Gly Thr Arg Leu Asp Ile Lys
100 105

<210> 296
<211> 108
<212> PRT
<213> Homo sapiens

<400> 296

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Ser Cys Arg Ala Ser Gln Asp Ile Tyr Arg
20 25 30

Trp Leu Val Trp Tyr Gln Gln Lys Pro Gly Lys Thr Pro Glu Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Asn Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln

65					70						75					80
Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ala	Asn	Ser	Phe	Pro	
				85					90					95		

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<210> 297
<211> 108
<212> PRT
<213> Homo sapiens
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Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Gly Gly Arg Ser Glu Ala Asp Phe Thr Leu Ala Ile Thr Ser Leu Gln
65 70 75 80

Phe Thr Phe Gly Gly Gly Thr Lys Val Glu Leu Lys
100 105

<400> 298

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Arg Ser
20 25 30

Ile Tyr Ala Ala Ser Thr Leu Gln Thr Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asp Ser Tyr Pro
85 90 95

Phe Thr Phe Gly Pro Gly Ser Lys Val Asp Ile Lys
100 105

<210> 299

<211> 108

<212> PRT

<213> Homo sapiens

<400> 299

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Ser Ile
20 25 30

His Leu Ala Trp Phe Gln Lys Lys Pro Gly Lys Ala Pro Lys Ser Leu
35 40 45

Ile Tyr Gly Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Lys Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Glu Ser Tyr Pro
85 90 95

Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 300

<211> 107

<212> PRT

<213> Homo sapiens

<400> 300

Gln Asn Ile Gln Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro
1 5 10 15

Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Lys Ser Val Ala Ser
20 25 30

Tyr Val Ala Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Arg Leu Leu
35 40 45

Met Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Ala Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Tyr Asn Pro Tyr
85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 301
<211> 112
<212> PRT
<213> Homo sapiens

<400> 301

Gln Asp Ile Gln Met Thr Gln Ser Pro Asp Ser Leu Pro Val Thr Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

<210> 302
<211> 108
<212> PRT
<213> Homo sapiens

<400> 302

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Arg Gly Ile Arg Asn
20 25 30

Asn Leu Ala Trp Tyr Gln His His Pro Gly Lys Ala Pro Lys Arg Leu
35 40 45

Ile Tyr His Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser

50 55 60
 Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Pro Glu Thr Tyr Pro
 85 90 95
 Trp Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 303
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 303

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
 1 5 10 15
 Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
 20 25 30
 Ser Ser Gly Tyr His Tyr Leu Asp Trp Tyr Val Gln Lys Pro Gly Gln
 35 40 45
 Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
 50 55 60
 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80
 Ile Ser Arg Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Gln
 85 90 95
 Ala Leu Gln Thr Pro Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 304
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 304

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15
 Gly Asp Thr Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Thr Asn
 20 25 30
 Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu
 35 40 45

Met Tyr Gly Ala Tyr Lys Leu Gln Tyr Gly Val Pro Thr Lys Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Arg Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Gln Thr Tyr Pro
85 90 95

Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Leu Lys
100 105

<210> 305
<211> 108
<212> PRT
<213> Homo sapiens

<400> 305

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Ser Ile Thr Cys Arg Ala Ser Gln Val Ile Gly Asn
20 25 30

Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Gln Ala Pro Lys Arg Leu
35 40 45

Ile Tyr Gly Ala Ser His Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Ser Ser Ile Pro
85 90 95

Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 306
<211> 108
<212> PRT
<213> Homo sapiens

<400> 306

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Met Ser Pro
1 5 10 15

Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Lys Met
20 25 30

Asn Leu Ala Trp Tyr Gln His Lys Leu Gly Gln Ala Pro Arg Leu Leu
35 40 45

Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Ala Asn Trp Pro
85 90 95

Phe His Phe Gly Pro Gly Thr Thr Val Asp Ile Lys
100 105

<210> 307
<211> 108
<212> PRT
<213> Homo sapiens

<400> 307

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Ile
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Thr Ile Asn Asn
20 25 30

Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Gln Leu Leu
35 40 45

Ile Tyr Lys Thr Ser Asn Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Val Asp Asp Phe Ala Thr Tyr His Cys Gln Gln Tyr Lys Ala Phe Pro
85 90 95

Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ser Lys
100 105

<210> 308
<211> 108
<212> PRT
<213> Homo sapiens

<400> 308

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ala Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Val Thr Cys Arg Ala Ser Gln Asp Ile Glu Asn
20 25 30

Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu

35 40 45
 Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Pro Lys Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Ser Ser Tyr Pro
 85 90 95
 Phe Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105

<210> 309
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 309

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Ile Cys Arg Ala Ser Gln Asp Ile His Thr
 20 25 30
 Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Thr Tyr Pro
 85 90 95
 Leu Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105

<210> 310
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 310

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser
 20 25 30

Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu
 35 40 45
 Ile Tyr Val Ala Ser Ser Leu Gln Asp Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Tyr Pro
 85 90 95
 Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 311
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 311

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro
 1 5 10 15
 Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Ile Ser Arg
 20 25 30
 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Phe
 35 40 45
 Ile Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Leu Arg Gly Leu Glu
 65 70 75 80
 Pro Glu Asp Ser Ala Val Tyr Phe Cys Gln Gln Tyr Ala Thr Leu Pro
 85 90 95
 Arg Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105

<210> 312
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 312

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Arg Asn
 20 25 30

Ala Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu
35 40 45

Ile Tyr Ala Ala Ser Asn Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Asn Ser Tyr Pro
85 90 95

Phe Thr Phe Gly Pro Gly Thr Thr Val Asp Ile Lys
100 105

<210> 313
<211> 112
<212> PRT
<213> Homo sapiens

<400> 313

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
1 5 10 15

Gly Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Asn
20 25 30

Ile Asp Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Phe Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Arg Ala Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

<210> 314
<211> 108
<212> PRT
<213> Homo sapiens

<400> 314

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Met Thr Cys Arg Ala Ser Gln Asp Ile Arg Asn

	20		25		30										
Asp	Leu	Gly	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Lys	Arg	Leu
	35						40					45			
Ile	Tyr	Thr	Ala	Ser	Arg	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln
65					70					75					80
Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Leu	Gln	Gln	Lys	Asn	Tyr	Pro
				85					90					95	
Leu	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys				
			100					105							

<210> 315
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 315

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Thr	Leu	Ser	Ala	Tyr	Val
1				5					10					15	
Gly	Asp	Arg	Val	Asn	Ile	Pro	Cys	Arg	Ala	Ser	Gln	Ser	Val	Asp	Ser
			20					25					30		
Trp	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Lys	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Ser	Val	Ser	Ser	Leu	Gln
65					70					75					80
Pro	Asp	Asp	Phe	Val	Thr	Tyr	Tyr	Cys	Gln	Gln	Tyr	Lys	Ser	Phe	Pro
				85					90					95	
Phe	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Leu	Glu	Ile	Lys				
			100					105							

<210> 316
 <211> 128
 <212> PRT
 <213> Homo sapiens

<400> 316

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Met Tyr
 20 25 30
 Met Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Ser Ile Trp Pro Ser Gly Gly Gln Thr Trp Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Val Leu His Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr
 100 105 110
 Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro
 115 120 125

<210> 317
 <211> 115
 <212> PRT
 <213> Homo sapiens

<400> 317

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Met Tyr
 20 25 30
 Met Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Ser Ile Trp Pro Ser Gly Gly Gln Thr Trp Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gly Ile Leu His Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr
 100 105 110
 Val Ser Ser
 115

<210> 318
 <211> 115

<212> PRT
<213> Homo sapiens

<400> 318

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	
1				5					10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Met	Tyr	
			20					25					30			
Met	Met	Asp	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	
		35					40					45				
Ser	Ser	Ile	Trp	Pro	Ser	Gly	Gly	Gln	Thr	Trp	Tyr	Ala	Asp	Ser	Val	
	50					55					60					
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	
65					70					75					80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	
				85					90					95		
Ala	Arg	Gly	Val	Leu	Leu	Asp	Lys	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	
			100					105					110			
Val	Ser	Ser														
		115														

<210> 319
<211> 115
<212> PRT
<213> Homo sapiens

<400> 319

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	
1				5					10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Met	Tyr	
			20					25					30			
Met	Met	Asp	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	
		35					40					45				
Ser	Ser	Ile	Trp	Pro	Ser	Gly	Gly	Gln	Thr	Trp	Tyr	Ala	Asp	Ser	Val	
	50					55					60					
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	
65					70					75					80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	
				85					90					95		
Ala	Arg	Gly	Val	Leu	Phe	Asp	Asn	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	
			100					105					110			

Val Ser Ser
115

<210> 320
<211> 9
<212> PRT
<213> Homo sapiens

<400> 320

Ser Ile Ala Ala Asp Arg Thr Asp Tyr
1 5

<210> 321
<211> 9
<212> PRT
<213> Homo sapiens

<400> 321

Ser Ile Ala Ala Ser Arg Thr Asp Tyr
1 5

<210> 322
<211> 9
<212> PRT
<213> Homo sapiens

<400> 322

Ser Ile Ala Ser Ala Gly Thr Asp His
1 5

<210> 323
<211> 9
<212> PRT
<213> Homo sapiens

<400> 323

Ser Ile Ala Ser Ala Arg Thr Asp Ser
1 5

<210> 324
<211> 112
<212> PRT
<213> Homo sapiens

<400> 324

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro

1	5	10	15
Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His	20	25	30
Ser Asn Gly Asn Thr Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln	35	40	45
Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val	50	55	60
Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys	65	70	75
Ile Ser Arg Val Glu Ala Gly Asp Val Gly Val Tyr Tyr Cys Met Gln	85	90	95
Ala Leu Gln Thr Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys	100	105	110

<210> 325
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 325

Ser Gly Ser Ser Ser Asn Ile Gly Ile Asn Thr Val Asn
1 5 10

<210> 326
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 326

Ser Gly Ser Asn Ser Asn Val Gly Thr Lys Thr Val Asn
1 5 10

<210> 327
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 327

Ser Gly Ser Ser Ser Asn Ile Glu Thr Asn Thr Val Asn
1 5 10

<210> 328
 <211> 13
 <212> PRT

<213> Homo sapiens

<400> 328

Ser Gly Gly Ser Ser Asn Ile Gly Ser Asn Thr Val Asn
1 5 10

<210> 329

<211> 13

<212> PRT

<213> Homo sapiens

<400> 329

Ser Gly Ser Ser Ser Asn Ile Gly Ser Lys Thr Val Asn
1 5 10

<210> 330

<211> 13

<212> PRT

<213> Homo sapiens

<400> 330

Ser Gly Ser Asn Ser Asn Ile Gly Ser Lys Thr Val Asn
1 5 10

<210> 331

<211> 13

<212> PRT

<213> Homo sapiens

<400> 331

Ser Gly Ser Ser Ser Asn Ile Gly Thr Asn Asn Val Asn
1 5 10

<210> 332

<211> 112

<212> PRT

<213> Homo sapiens

<400> 332

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val
 50 55 60
 Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80
 Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
 85 90 95
 Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105 110

<210> 333
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 333

Ser Asn Asn Gln Arg Pro Ser
 1 5

<210> 334
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 334

Ser Asn Thr Gln Arg Pro Ser
 1 5

<210> 335
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 335

Ser Asp Asp Gln Arg Pro Ser
 1 5

<210> 336
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 336

Asn Ser Ser Gln Arg Pro Ser
 1 5

<210> 337
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 337

Asn Asn Ile Gln Arg Pro Ser
 1 5

<210> 338
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 338

Met Asn Tyr Glu Arg Pro Ser
 1 5

<210> 339
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 339

Ser His His Arg Arg Pro Ser
 1 5

<210> 340
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 340

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro
 1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His
 20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45

Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val
 50 55 60

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
 85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

<210> 341
<211> 11
<212> PRT
<213> Homo sapiens

<400> 341

Ala Ala Trp Asp Asp Ser Leu Asn Gly Pro Val
1 5 10

<210> 342
<211> 11
<212> PRT
<213> Homo sapiens

<400> 342

Ala Ala Trp Asp Asp Ser Leu Asn Gly Pro Leu
1 5 10

<210> 343
<211> 11
<212> PRT
<213> Homo sapiens

<400> 343

Ala Ala Trp Asp Asp Ser Leu Ser Gly Pro Val
1 5 10

<210> 344
<211> 112
<212> PRT
<213> Homo sapiens

<400> 344

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

<210> 345

<211> 110

<212> PRT

<213> Homo sapiens

<400> 345

Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 346

<211> 110

<212> PRT

<213> Homo sapiens

<400> 346

Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ile Asn
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 347
<211> 110
<212> PRT
<213> Homo sapiens

<400> 347

Gln Ser Val Leu Thr Gln Ser Pro Ser Ala Ser Gly Thr Pro Gly Gln
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Asn Ser Asn Val Gly Thr Lys
20 25 30

Thr Val Asn Trp Tyr Gln Val Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ser Asn Thr Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Arg Val Thr Val Leu
100 105 110

<210> 348
<211> 110
<212> PRT
<213> Homo sapiens

<400> 348

Gln Ser Ala Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser

50 55 60
 Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
 65 70 75 80
 Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
 85 90 95
 Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 349
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 349

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
 1 5 10 15
 Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
 20 25 30
 Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45
 Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
 50 55 60
 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80
 Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
 85 90 95
 Ala Leu Gln Ala Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105 110

<210> 350
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 350

Gln Ser Ala Leu Thr Gln Ser Pro Ser Ala Ser Gly Thr Pro Gly Gln
 1 5 10 15
 Arg Val Thr Ile Ser Cys Ser Gly Ser Asn Ser Asn Val Gly Thr Lys
 20 25 30
 Thr Val Asn Trp Tyr Gln Val Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45

Ile Tyr Ser Asn Thr Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Arg Val Thr Val Leu
100 105 110

<210> 351
<211> 110
<212> PRT
<213> Homo sapiens

<400> 351

Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Glu Thr Asn
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 352
<211> 110
<212> PRT
<213> Homo sapiens

<400> 352

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 353
<211> 112
<212> PRT
<213> Homo sapiens

<400> 353

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

<210> 354
<211> 110
<212> PRT
<213> Homo sapiens

<400> 354

Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Ser Asp Asp Gln Arg Pro Ser Gly Val Pro Asp Arg Pro Ser
 50 55 60
 Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser
 65 70 75 80
 Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
 85 90 95
 Ala Ala Trp Asp Asp Ser Leu Asn Gly Pro Val Phe Gly Gly Gly Thr
 100 105 110
 Lys Leu Thr Val Leu
 115

<210> 357
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 357

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
 1 5 10 15
 Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ile Asn
 20 25 30
 Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60
 Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
 65 70 75 80
 Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
 85 90 95
 Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105 110

<210> 358
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 358

Gln Ser Ala Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
 1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Glu Thr Asn
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 359
<211> 123
<212> PRT
<213> Homo sapiens

<400> 359

Phe Tyr Ser His Ser Ala Gln Tyr Glu Leu Thr Gln Pro Pro Ser Ala
1 5 10 15

Ala Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Gly Ser
20 25 30

Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly
35 40 45

Thr Ala Pro Lys Leu Leu Ile Tyr Asn Ser Ser Gln Arg Pro Ser Gly
50 55 60

Val Pro Asp Arg Phe Ser Gly Ser Arg Ser Gly Thr Ser Ala Ser Leu
65 70 75 80

Ala Ile Ser Gly Leu Gln Ser Gln Asp Glu Ala Asp Tyr Tyr Cys Ala
85 90 95

Ala Trp Asp Asp Ser Leu Asn Gly Pro Leu Phe Gly Gly Gly Thr Lys
100 105 110

Leu Thr Val Leu Gly Gln Pro Lys Ala Ala Pro
115 120

<210> 360
<211> 110
<212> PRT
<213> Homo sapiens

<400> 360

Gln	Ser	Val	Leu	Thr	Gln	Pro	Pro	Ser	Ala	Ser	Gly	Thr	Pro	Gly	Gln
1				5					10					15	
Ser	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Ser	Ser	Asn	Ile	Gly	Ser	Lys
			20					25					30		
Thr	Val	Asn	Trp	Tyr	Gln	Gln	Phe	Pro	Arg	Ala	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	His	Asn	Asn	Ile	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln
65					70					75					80
Ser	Asp	Asp	Glu	Gly	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu
				85					90					95	
Asn	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu		
			100					105					110		

<210> 361

<211> 110

<212> PRT

<213> Homo sapiens

<400> 361

Gln	Ser	Ala	Leu	Thr	Gln	Pro	Pro	Ser	Thr	Ser	Gly	Thr	Pro	Gly	Gln
1				5					10					15	
Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Asn	Ser	Asn	Ile	Gly	Ser	Lys
			20					25					30		
Thr	Val	Asn	Trp	Tyr	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Met	Asn	Tyr	Glu	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln
65					70					75					80
Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu
				85					90					95	
Ser	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu		
			100					105					110		

<210> 362

<211> 110

<212> PRT

<213> Homo sapiens

<400> 362

Gln	Ser	Ala	Leu	Thr	Gln	Pro	Pro	Ser	Ala	Ser	Gly	Thr	Pro	Gly	Gln
1				5					10					15	
Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Ser	Ser	Asn	Ile	Gly	Ile	Asn
			20					25					30		
Thr	Val	Asn	Trp	Tyr	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Ser	Asn	Asn	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln
65					70					75					80
Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu
				85					90					95	
Asn	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu		
			100					105					110		

<210> 363

<211> 110

<212> PRT

<213> Homo sapiens

<400> 363

Gln	Ser	Ala	Leu	Thr	Gln	Pro	Pro	Ser	Ala	Ala	Gly	Thr	Pro	Gly	Gln
1				5					10					15	
Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Gly	Ser	Ser	Asn	Ile	Gly	Ser	Asn
			20					25					30		
Thr	Val	Asn	Trp	Tyr	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Asn	Ser	Ser	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Arg	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln
65					70					75					80
Ser	Gln	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu
				85					90					95	
Asn	Gly	Pro	Leu	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu		
			100					105					110		

<210> 364

<211> 112

<212> PRT

<213> Homo sapiens

<400> 364

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro
1				5					10					15	
Gly	Gln	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	Asn
			20					25					30		
Ile	Asp	Gly	Tyr	Asn	Tyr	Leu	Asp	Trp	Tyr	Leu	Gln	Lys	Pro	Gly	Gln
		35					40					45			
Ser	Pro	Gln	Leu	Leu	Ile	Tyr	Phe	Gly	Ser	Asn	Arg	Ala	Ser	Gly	Val
	50					55					60				
Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Lys
65					70					75					80
Ile	Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln
				85					90					95	
Ala	Leu	Arg	Ala	Ile	Thr	Phe	Gly	Gln	Gly	Thr	Arg	Leu	Glu	Ile	Lys
			100					105					110		

<210> 365

<211> 112

<212> PRT

<213> Homo sapiens

<400> 365

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro
1				5					10					15	
Gly	Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	His
			20					25					30		
Arg	Asn	Gly	Tyr	Asn	Phe	Leu	Asp	Trp	Tyr	Leu	Gln	Lys	Pro	Gly	Gln
		35					40					45			
Ser	Pro	Gln	Leu	Leu	Ile	Tyr	Leu	Gly	Ser	Asn	Arg	Ala	Ser	Gly	Val
	50					55					60				
Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys
65					70					75					80
Ile	Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln
				85					90					95	
Ala	Leu	Gln	Ser	Pro	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		

<210> 366

<211> 110

<212> PRT

<213> Homo sapiens

<400> 366

Gln	Ser	Ala	Leu	Thr	Gln	Pro	Pro	Ser	Ala	Ser	Gln	Thr	Pro	Gly	Gln	
1				5					10					15		
Thr	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Ser	Ser	Asn	Ile	Gly	Thr	Asn	
			20					25					30			
Asn	Val	Asn	Trp	Tyr	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu	
		35					40					45				
Ile	Ser	Ser	His	His	Arg	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser	
	50					55					60					
Ala	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln	
65					70					75					80	
Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu	
			85					90						95		
Asn	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu			
		100						105					110			

<210> 367

<211> 112

<212> PRT

<213> Homo sapiens

<400> 367

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro	
1				5					10					15		
Gly	Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	His	
		20						25					30			
Ser	Asn	Gly	Tyr	Asn	Tyr	Leu	Asp	Trp	Tyr	Leu	Gln	Lys	Pro	Gly	Gln	
		35					40					45				
Ser	Pro	Gln	Leu	Leu	Ile	Tyr	Leu	Gly	Ser	Asn	Arg	Ala	Ser	Gly	Val	
	50					55					60					
Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys	
65					70					75					80	
Ile	Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln	
			85						90					95		
Ala	Leu	Gln	Ser	Ile	Thr	Phe	Gly	Gln	Gly	Thr	Arg	Leu	Glu	Ile	Lys	
		100						105					110			

<210> 368

<211> 110

<212> PRT
<213> Homo sapiens

<400> 368

Gln	Ser	Glu	Leu	Thr	Gln	Pro	Pro	Ser	Ala	Ser	Gly	Thr	Pro	Gly	Gln	
1				5					10					15		
Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Ser	Ser	Asn	Ile	Glu	Thr	Asn	
			20					25					30			
Thr	Val	Asn	Trp	Tyr	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu	
		35					40					45				
Ile	Tyr	Ser	Asn	Asn	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser	
	50					55					60					
Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln	
65					70					75					80	
Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu	
				85					90					95		
Asn	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu			
			100					105					110			

<210> 369
<211> 131
<212> PRT
<213> Homo sapiens

<400> 369

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	
1				5					10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Arg	Tyr	
			20					25					30			
Leu	Met	Met	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	
		35					40					45				
Ser	Val	Ile	Ser	Pro	Ser	Gly	Gly	Arg	Thr	Trp	Tyr	Ala	Asp	Ser	Val	
	50					55					60					
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	
65					70					75					80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	
				85					90					95		
Val	Arg	Ser	Ile	Ala	Ala	Asp	Arg	Thr	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	
			100					105					110			
Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	
			115				120					125				

Leu Ala Pro
130

<210> 370
<211> 131
<212> PRT
<213> Homo sapiens

<400> 370

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	
1			5					10					15			
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Arg	Tyr	
			20					25					30			
Leu	Met	Met	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	
		35					40					45				
Ser	Val	Ile	Ser	Pro	Ser	Gly	Gly	Arg	Thr	Trp	Tyr	Ala	Asp	Ser	Val	
	50					55					60					
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	
65					70					75					80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	
			85						90					95		
Val	Arg	Ser	Ile	Ala	Ser	Ala	Gly	Thr	Asp	His	Trp	Gly	Gln	Gly	Thr	
			100					105					110			
Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	
		115					120					125				

Leu Ala Pro
130

<210> 371
<211> 131
<212> PRT
<213> Homo sapiens

<400> 371

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	
1			5					10					15			
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Arg	Tyr	
			20					25					30			
Leu	Met	Met	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	
		35					40					45				
Ser	Val	Ile	Ser	Pro	Ser	Gly	Gly	Arg	Thr	Trp	Tyr	Ala	Asp	Ser	Val	

50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Val Arg Ser Ile Ala Ser Ala Arg Thr Asp Ser Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
 115 120 125
 Leu Ala Pro
 130

<210> 372
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 372

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr
 20 25 30
 Leu Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Val Arg Ser Ile Ala Ala Ser Arg Thr Asp Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
 115 120 125
 Leu Ala Pro
 130

<210> 373
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 373

Glu Arg Ser Val Ala Val Phe Lys Ala Arg Pro Arg His Tyr Tyr Tyr
1 5 10 15

Tyr Met Asp Val
20

<210> 374

<211> 20

<212> PRT

<213> Homo sapiens

<400> 374

Asp Gly Ser Ala Arg Val Val Lys Gly Pro Arg Arg Tyr Tyr Tyr Tyr
1 5 10 15

Tyr Ile Asp Val
20

<210> 375

<211> 20

<212> PRT

<213> Homo sapiens

<400> 375

Glu Gly Ser Ala Arg Val Val Lys Gly Pro Ala Arg Tyr Phe Tyr Tyr
1 5 10 15

Tyr Met Asp Leu
20

<210> 376

<211> 20

<212> PRT

<213> Homo sapiens

<400> 376

Glu Gly Ser Ser Gly Val Val Lys Gly Pro Ala Arg Tyr Tyr Tyr Tyr
1 5 10 15

Tyr Met Asp Ala
20

<210> 377

<211> 9

<212> PRT

<213> Homo sapiens

<400> 377

Gln Gln Thr Tyr Ser Thr Pro Arg Thr
1 5

<210> 378

<211> 9

<212> PRT

<213> Homo sapiens

<400> 378

Gln Gln Ser Tyr Ser Thr Pro Arg Thr
1 5

<210> 379

<211> 9

<212> PRT

<213> Homo sapiens

<400> 379

Gln Gln Ser Asn Ser Ile Pro Arg Thr
1 5

<210> 380

<211> 9

<212> PRT

<213> Homo sapiens

<400> 380

Gln Gln Ser Tyr Thr Thr Pro Arg Thr
1 5

<210> 381

<211> 7

<212> PRT

<213> Homo sapiens

<400> 381

Ala Ala Ser Asn Leu Gln Ser
1 5

<210> 382

<211> 7

<212> PRT

<213> Homo sapiens

<400> 382

Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 383
<211> 7
<212> PRT
<213> Homo sapiens

<400> 383

Ala Ala Tyr Thr Leu Gln Ser
1 5

<210> 384
<211> 7
<212> PRT
<213> Homo sapiens

<400> 384

Ser Ala Ser Ser Leu Gln Ser
1 5

<210> 385
<211> 7
<212> PRT
<213> Homo sapiens

<400> 385

Asp Ala Ser Thr Leu Gln Asn
1 5

<210> 386
<211> 7
<212> PRT
<213> Homo sapiens

<400> 386

Ala Ala Ser Thr Leu Gln Ser
1 5

<210> 387
<211> 7
<212> PRT
<213> Homo sapiens

<400> 387

Gly Ala Ser Ser Leu Gln Ser
1 5

<210> 388
<211> 11
<212> PRT
<213> Homo sapiens

<400> 388

Arg Ala Ser Gln Thr Ile Lys Asn Tyr Leu Asn
1 5 10

<210> 389
<211> 11
<212> PRT
<213> Homo sapiens

<400> 389

Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn
1 5 10

<210> 390
<211> 11
<212> PRT
<213> Homo sapiens

<400> 390

Arg Ala Ser Gln Ser Ile Ser Arg Tyr Leu Asn
1 5 10

<210> 391
<211> 11
<212> PRT
<213> Homo sapiens

<400> 391

Arg Ala Ser Arg Gly Val Ser Thr Ser Leu Asn
1 5 10

<210> 392
<211> 11
<212> PRT
<213> Homo sapiens

<400> 392

Arg Ala Ser Gln Thr Ile Ser Lys Asn Leu Asn
1 5 10

<210> 393
<211> 11
<212> PRT
<213> Homo sapiens

<400> 393

Arg Ala Ser Arg Arg Ile Gly Thr Tyr Leu Asn
1 5 10

<210> 394
<211> 11
<212> PRT
<213> Homo sapiens

<400> 394

Arg Ala Ser Gln Ser Ile Arg Ser Tyr Leu Asn
1 5 10

<210> 395
<211> 11
<212> PRT
<213> Homo sapiens

<400> 395

Arg Ala Ser Gln Thr Ile Asn Ser Tyr Leu Asn
1 5 10

<210> 396
<211> 11
<212> PRT
<213> Homo sapiens

<400> 396

Arg Ala Ser Gln Ser Ile Asn Arg Trp Leu Ala
1 5 10

<210> 397
<211> 142
<212> PRT
<213> Homo sapiens

<400> 397

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Pro Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Gly Ile Trp Ser Ser Gly Gly Leu Thr Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Glu Arg Ser Val Ala Val Phe Lys Ala Arg Pro Arg His Tyr
 100 105 110
 Tyr Tyr Tyr Met Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser
 115 120 125
 Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro
 130 135 140

<210> 398
 <211> 142
 <212> PRT
 <213> Homo sapiens

<400> 398

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30
 Pro Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Gly Ile Trp Ser Ser Gly Gly Leu Thr Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Asp Gly Ser Ala Arg Val Val Lys Gly Pro Arg Arg Tyr Tyr
 100 105 110
 Tyr Tyr Tyr Ile Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser
 115 120 125
 Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro
 130 135 140

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<210> 399
<211> 142
<212> PRT
<213> Homo sapiens
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Glu 1	Val	Gln	Leu	Leu 5	Glu	Ser	Gly	Gly	Gly 10	Leu	Val	Gln	Pro	Gly 15	Gly
Ser	Leu	Arg	Leu 20	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser 30	Ser	Tyr
Pro	Met	Val	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Lys	Gly	Leu 45	Glu	Trp	Val
Ser	Gly 50	Ile	Trp	Ser	Ser	Gly 55	Gly	Leu	Thr	Tyr	Tyr 60	Ala	Asp	Ser	Val
Lys 65	Gly	Arg	Phe	Thr	Ile 70	Ser	Arg	Asp	Asn	Ser 75	Lys	Asn	Thr	Leu	Tyr 80
Leu	Gln	Met	Asn	Ser 85	Leu	Arg	Ala	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys
Ala	Arg	Glu	Gly 100	Ser	Ser	Gly	Val	Val 105	Lys	Gly	Pro	Ala	Arg 110	Tyr	Tyr
Tyr	Tyr	Tyr 115	Met	Asp	Ala	Trp	Gly 120	Lys	Gly	Thr	Thr	Val 125	Thr	Val	Ser
Ser	Ala 130	Ser	Thr	Lys	Gly	Pro 135	Ser	Val	Phe	Pro	Leu	Ala	Pro		

<400> 400

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Val	Ser	Val
1				5					10					15	
Gly	Asp	Arg	Val	Ile	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Thr	Ile	Lys	Asn
			20					25					30		
Tyr	Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Ala	Ala	Ser	Asn	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln
65					70					75					80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Thr Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 401
<211> 108
<212> PRT
<213> Homo sapiens

<400> 401

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 402
<211> 108
<212> PRT
<213> Homo sapiens

<400> 402

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Arg
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Tyr Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Arg Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Asn Ser Ile Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Thr Val Glu Ile Arg
100 105

<210> 403
<211> 108
<212> PRT
<213> Homo sapiens

<400> 403

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 404
<211> 108
<212> PRT
<213> Homo sapiens

<400> 404

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln

65					70						75					80
Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ser	Tyr	Ser	Thr	Pro	
				85					90					95		

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<210> 405
<211> 108
<212> PRT
<213> Homo sapiens
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Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Ser Leu Asn Trp Tyr Gln Ile Lys Pro Glu Lys Ala Pro Lys Leu Leu
35 40 45

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Ala Ile Thr Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Pro Gly Thr Lys Val Glu Ile Lys
100 105

<210> 407
<211> 108
<212> PRT
<213> Homo sapiens

<400> 407

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 408
<211> 108
<212> PRT
<213> Homo sapiens

<400> 408

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Thr Ile Ser Lys
20 25 30

Asn Leu Asn Trp Tyr Gln Gln Lys Pro Gly Ser Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ser Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Gly Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Thr Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Glu
100 105

<210> 409
<211> 108
<212> PRT
<213> Homo sapiens

<400> 409

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 410
<211> 108
<212> PRT
<213> Homo sapiens

<400> 410

Gln Asp Ile Gln Met Thr Gln Ser Pro Asp Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser

50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
 85 90 95
 Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 411
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 411

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
 20 25 30
 Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
 85 90 95
 Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 412
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 412

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
 20 25 30
 Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 413
<211> 108
<212> PRT
<213> Homo sapiens

<400> 413

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 414
<211> 108
<212> PRT
<213> Homo sapiens

<400> 414

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 415
<211> 108
<212> PRT
<213> Homo sapiens

<400> 415

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 416
<211> 108
<212> PRT
<213> Homo sapiens

<400> 416

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu

35 40 45
 Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
 85 90 95
 Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 417
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 417

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Thr Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Arg Arg Ile Gly Thr
 20 25 30
 Tyr Leu Asn Trp Tyr Gln Gln Lys Ala Gly Lys Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Asp Ala Ser Thr Leu Gln Asn Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Thr Glu Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Val Ala Thr Tyr Phe Cys Gln Gln Ser Tyr Ser Thr Pro
 85 90 95
 Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 418
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 418

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Arg Ser
 20 25 30

Tyr Leu Asn Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
 85 90 95
 Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

<210> 419
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 419

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser
 20 25 30
 Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu
 35 40 45
 Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro
 85 90 95
 Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 420
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 420

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Thr Ile Asn Ser

		20						25					30				
Tyr	Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Asp	Leu	Leu		
		35					40					45					
Ile	Phe	Gly	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser		
	50					55					60						
Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Thr	Ser	Leu	Gln		
65					70					75					80		
Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ser	Tyr	Thr	Thr	Pro		
				85					90					95			
Arg	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Leu	Glu	Ile	Lys						
			100					105									

<210> 421
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 421

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Thr	Leu	Ser	Ala	Ser	Val		
1				5					10					15			
Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Ser	Ile	Asn	Arg		
			20					25					30				
Trp	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Asn	Leu	Leu		
		35					40					45					
Ile	Tyr	Ala	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser		
	50					55					60						
Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln		
65					70					75					80		
Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ser	Tyr	Ser	Thr	Pro		
				85					90					95			
Arg	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys						
			100					105									

<210> 422
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 422

Ala	Gly	Asp	Glu	Leu	Gly	Asn	Lys	Tyr	Ala	Ser							
1				5					10								

<210> 423
<211> 11
<212> PRT
<213> Homo sapiens

<400> 423

Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser Ser
1 5 10

<210> 424
<211> 11
<212> PRT
<213> Homo sapiens

<400> 424

Ser Gly Asp Lys Leu Arg Asn Lys Tyr Ala Ser
1 5 10

<210> 425
<211> 11
<212> PRT
<213> Homo sapiens

<400> 425

Ser Gly Asn Lys Leu Gly Asn Thr Tyr Ile Ser
1 5 10

<210> 426
<211> 14
<212> PRT
<213> Homo sapiens

<400> 426

Thr Gly Thr Gly Ser Asp Val Gly Arg Tyr Ser His Val Ser
1 5 10

<210> 427
<211> 13
<212> PRT
<213> Homo sapiens

<400> 427

Ser Gly Gly Ser Ser Asn Ile Gly Leu Asn Pro Val Asn
1 5 10

<210> 428

<211> 11
<212> PRT
<213> Homo sapiens

<400> 428

Ser Gly Asp Lys Leu Gly Ser Lys Tyr Thr Ser
1 5 10

<210> 429
<211> 11
<212> PRT
<213> Homo sapiens

<400> 429

Ser Gly Gln Ile Leu Gly Glu Arg Ser Ala Ser
1 5 10

<210> 430
<211> 14
<212> PRT
<213> Homo sapiens

<400> 430

Thr Gly Thr Ser Ser Asp Val Gly Arg Tyr Asn Arg Val Ser
1 5 10

<210> 431
<211> 11
<212> PRT
<213> Homo sapiens

<400> 431

Ser Gly Asp Thr Leu Arg Asn Lys Tyr Ala Ser
1 5 10

<210> 432
<211> 13
<212> PRT
<213> Homo sapiens

<400> 432

Ser Gly Ser Ser Ser Asn Ile Gly Gly Asn Thr Val Asn
1 5 10

<210> 433
<211> 11
<212> PRT

<213> Homo sapiens

<400> 433

Ser Gly Asp Lys Leu Arg Asn Lys Tyr Gly Ser
1 5 10

<210> 434

<211> 7

<212> PRT

<213> Homo sapiens

<400> 434

Gln Asp Arg Lys Arg Pro Ser
1 5

<210> 435

<211> 7

<212> PRT

<213> Homo sapiens

<400> 435

Gln Asp Lys Lys Arg Pro Ser
1 5

<210> 436

<211> 7

<212> PRT

<213> Homo sapiens

<400> 436

Ala Val Thr Asn Arg Pro Ser
1 5

<210> 437

<211> 7

<212> PRT

<213> Homo sapiens

<400> 437

Ser Asn Asn Gln Arg Pro Ser
1 5

<210> 438

<211> 7

<212> PRT

<213> Homo sapiens

<400> 438

Gln Asn Arg Lys Arg Pro Ser
1 5

<210> 439

<211> 112

<212> PRT

<213> Homo sapiens

<400> 439

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Arg His
20 25 30

Asn Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Ala Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

<210> 440

<211> 7

<212> PRT

<213> Homo sapiens

<400> 440

Gln Ser Ser Gln Arg Pro Ser
1 5

<210> 441

<211> 7

<212> PRT

<213> Homo sapiens

<400> 441

Glu Val Ser Asn Arg Pro Ser
1 5

<210> 442
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 442

Gln	Asp	Ile	Val	Met	Thr	Gln	Thr	Pro	Pro	Ser	Leu	Pro	Val	Asn	Pro
1				5					10					15	
Gly	Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	Asn
			20					25					30		
Ile	Asp	Gly	Tyr	Asn	Tyr	Leu	Asp	Trp	Tyr	Leu	Gln	Lys	Pro	Gly	Gln
		35					40					45			
Ser	Pro	Gln	Leu	Leu	Ile	Tyr	Phe	Gly	Ser	Asn	Arg	Ala	Ser	Gly	Val
	50					55					60				
Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Lys
65					70					75					80
Ile	Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln
				85					90					95	
Ala	Leu	Arg	Ala	Ile	Thr	Phe	Gly	Gln	Gly	Thr	Arg	Leu	Glu	Ile	Lys
			100					105					110		

<210> 443
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 443

Arg	Asn	Asn	Gln	Arg	Pro	Ser
1				5		

<210> 444
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 444

Gln	Ser	Trp	Asp	Ser	Ser	Ser	Val	Ile
1				5				

<210> 445
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 445

Gln Ala Trp Asp Ser Ser Ser Val Ile
1 5

<210> 446
<211> 9
<212> PRT
<213> Homo sapiens

<400> 446

Gln Thr Trp Asp Ser Ser Ser Val Ile
1 5

<210> 447
<211> 9
<212> PRT
<213> Homo sapiens

<400> 447

Gln Thr Trp Asp Arg Ser Ser Val Val
1 5

<210> 448
<211> 10
<212> PRT
<213> Homo sapiens

<400> 448

Gln Ser Tyr Thr Thr Thr Gly Thr Leu Ile
1 5 10

<210> 449
<211> 9
<212> PRT
<213> Homo sapiens

<400> 449

Ser Ser Tyr Thr Asn Ser Ser Val Ile
1 5

<210> 450
<211> 9
<212> PRT
<213> Homo sapiens

<400> 450

Gln Ala Trp Asp Asn Ser Ala Val Ile

1 5

<210> 451
<211> 8
<212> PRT
<213> Homo sapiens

<400> 451

Gln Thr Trp Asp Thr Ser Ile Leu
1 5

<210> 452
<211> 9
<212> PRT
<213> Homo sapiens

<400> 452

Ser Ser Tyr Arg Asn Thr Gly Pro Leu
1 5

<210> 453
<211> 17
<212> PRT
<213> Homo sapiens

<400> 453

Ser Ile Trp Ser Ser Gly Gly Leu Thr Lys Glu Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 454
<211> 10
<212> PRT
<213> Homo sapiens

<400> 454

Asn Ser Tyr Thr Asn Ser Ala Thr Leu Val
1 5 10

<210> 455
<211> 119
<212> PRT
<213> Homo sapiens

<400> 455

Phe Tyr Ser His Ser Ala Gln Ser Ala Leu Thr Gln Pro Pro Ser Val
 1 5 10 15
 Ser Val Ser Pro Gly Gln Thr Ala Ser Ile Thr Cys Ala Gly Asp Glu
 20 25 30
 Leu Gly Asn Lys Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser
 35 40 45
 Pro Val Leu Val Ile Tyr Gln Asp Arg Lys Arg Pro Ser Gly Ile Pro
 50 55 60
 Glu Arg Phe Ser Gly Ser His Ser Gly Asn Thr Ala Thr Leu Thr Ile
 65 70 75 80
 Ser Gly Thr Gln Ala Leu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Trp
 85 90 95
 Asp Ser Ser Ser Val Ile Phe Gly Gly Gly Thr Lys Val Thr Val Leu
 100 105 110
 Ser Gln Pro Lys Ala Ala Pro
 115

<210> 456
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 456

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
 1 5 10 15
 Thr Ala Ser Ile Thr Cys Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser
 20 25 30
 Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
 35 40 45
 Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
 50 55 60
 His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
 65 70 75 80
 Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile
 85 90 95
 Phe Gly Gly Gly Thr Lys Val Thr Val Leu
 100 105

<210> 457
 <211> 106

<212> PRT
<213> Homo sapiens

<400> 457

Gln	Ser	Glu	Leu	Thr	Gln	Pro	Pro	Ser	Val	Ser	Val	Ser	Pro	Gly	Gln	
1				5					10					15		
Thr	Ala	Ser	Ile	Thr	Cys	Ser	Gly	Asp	Lys	Leu	Arg	Asn	Lys	Tyr	Ala	
			20					25					30			
Ser	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Val	Leu	Val	Ile	Tyr	
		35					40					45				
Gln	Asp	Arg	Lys	Arg	Pro	Ser	Glu	Ile	Pro	Glu	Arg	Phe	Ser	Gly	Ser	
	50					55					60					
His	Ser	Gly	Asn	Thr	Ala	Thr	Leu	Thr	Ile	Ser	Gly	Thr	Gln	Ala	Met	
65					70					75					80	
Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Gln	Thr	Trp	Asp	Ser	Ser	Ser	Val	Ile	
				85					90					95		
Phe	Gly	Gly	Gly	Thr	Lys	Val	Thr	Val	Leu							
			100					105								

<210> 458
<211> 106
<212> PRT
<213> Homo sapiens

<400> 458

Gln	Ser	Val	Leu	Thr	Gln	Pro	Pro	Ser	Val	Ser	Val	Ser	Pro	Gly	Gln	
1				5					10					15		
Thr	Ala	Ser	Ile	Thr	Cys	Ser	Gly	Asp	Ile	Leu	Gly	Asn	Lys	Tyr	Ser	
			20					25					30			
Ser	Trp	Tyr	Gln	Gln	Arg	Pro	Gly	Gln	Ser	Pro	Val	Leu	Val	Ile	Tyr	
		35					40					45				
Gln	Asp	Lys	Lys	Arg	Pro	Ser	Gly	Ile	Pro	Glu	Arg	Phe	Ser	Gly	Ser	
	50					55					60					
His	Ser	Gly	Asn	Thr	Ala	Thr	Leu	Thr	Ile	Ser	Gly	Thr	Gln	Ala	Met	
65					70					75					80	
Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Gln	Ala	Trp	Asp	Ser	Ser	Ser	Val	Ile	
				85					90					95		
Phe	Gly	Gly	Gly	Thr	Lys	Val	Thr	Val	Leu							
			100					105								

<210> 459

<211> 106
 <212> PRT
 <213> Homo sapiens

<400> 459

Gln	Ser	Val	Leu	Thr	Gln	Pro	Pro	Ser	Val	Ser	Val	Ser	Pro	Gly	Gln
1				5					10					15	
Thr	Ala	Thr	Ile	Thr	Cys	Ser	Gly	Asn	Lys	Leu	Gly	Asn	Thr	Tyr	Ile
			20					25					30		
Ser	Trp	Tyr	Gln	Lys	Lys	Pro	Gly	Gln	Ser	Pro	Val	Leu	Val	Ile	Tyr
		35					40					45			
Gln	Asp	Lys	Lys	Arg	Pro	Ser	Gly	Ile	Pro	Glu	Arg	Phe	Ser	Gly	Ser
	50					55					60				
Asn	Ser	Gly	Asn	Thr	Ala	Thr	Leu	Thr	Ile	Thr	Gly	Thr	Gln	Ser	Leu
65					70					75					80
Asp	Glu	Ser	Asp	Tyr	Tyr	Cys	Gln	Thr	Trp	Asp	Arg	Ser	Ser	Val	Val
				85					90					95	
Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu						
			100					105							

<210> 460
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 460

Phe	Tyr	Ser	His	Ser	Ala	Gln	Ser	Glu	Leu	Thr	Gln	Pro	Pro	Ser	Val
1				5					10					15	
Ser	Val	Ser	Pro	Gly	Gln	Thr	Ala	Ser	Ile	Thr	Cys	Ser	Gly	Asp	Lys
			20					25					30		
Leu	Arg	Asn	Lys	Tyr	Ala	Ser	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ser
		35					40					45			
Pro	Val	Leu	Val	Ile	Tyr	Gln	Asp	Arg	Lys	Arg	Pro	Ser	Glu	Ile	Pro
	50					55					60				
Glu	Arg	Phe	Ser	Gly	Ser	His	Ser	Gly	Asn	Thr	Ala	Thr	Leu	Thr	Ile
65					70				75						80
Ser	Gly	Thr	Gln	Ala	Met	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Gln	Ala	Trp
				85					90					95	
Asp	Ser	Ser	Ser	Val	Ile	Phe	Gly	Gly	Gly	Thr	Lys	Val	Thr	Val	Leu
			100					105					110		
Gly	Gln	Pro	Lys	Ala	Ala	Pro									

115

<210> 461
 <211> 109
 <212> PRT
 <213> Homo sapiens

<400> 461

Gln	Ser	Glu	Leu	Thr	Gln	Pro	Ala	Ser	Val	Ser	Gly	Ser	Pro	Gly	Gln
1				5					10					15	
Ser	Ile	Thr	Ile	Ser	Cys	Thr	Gly	Thr	Gly	Ser	Asp	Val	Gly	Arg	Tyr
			20					25					30		
Ser	His	Val	Ser	Trp	Tyr	Gln	Gln	His	Pro	Gly	Lys	Ala	Pro	Lys	Leu
		35					40					45			
Ile	Ile	Tyr	Ala	Val	Thr	Asn	Arg	Pro	Ser	Gly	Val	Ser	Ala	Arg	Phe
	50					55					60				
Ser	Gly	Ser	Arg	Ser	Gly	Asn	Thr	Ala	Ser	Leu	Thr	Ile	Ser	Gly	Leu
65					70					75					80
Gln	Ser	Glu	Asp	Glu	Ala	Thr	Tyr	His	Cys	Gln	Ser	Tyr	Thr	Thr	Thr
			85						90					95	
Gly	Thr	Leu	Ile	Phe	Gly	Gly	Gly	Thr	Asn	Leu	Thr	Val			
		100						105							

<210> 462
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 462

Gln	Ser	Val	Leu	Thr	Gln	Pro	Pro	Ser	Val	Ser	Val	Ser	Pro	Gly	Gln
1				5					10					15	
Thr	Ala	Ile	Ile	Thr	Cys	Ser	Gly	Asp	Ile	Leu	Gly	Asn	Lys	Tyr	Ser
			20					25					30		
Ser	Trp	Tyr	Gln	Gln	Arg	Pro	Gly	Gln	Ser	Pro	Val	Leu	Val	Ile	Phe
		35					40					45			
Gln	Asp	Lys	Lys	Arg	Pro	Ser	Gly	Ile	Pro	Glu	Arg	Phe	Ser	Gly	Ser
	50					55				60					
His	Ser	Gly	Asn	Thr	Ala	Thr	Leu	Thr	Ile	Ser	Gly	Thr	Gln	Ala	Met
65					70					75					80
Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Gln	Ala	Trp	Asp	Ser	Ser	Ser	Val	Ile
			85						90					95	

Phe Gly Gly Gly Thr Lys Val Thr Val Leu
100 105

<210> 463
<211> 106
<212> PRT
<213> Homo sapiens

<400> 463

Gln Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15
Thr Ala Thr Ile Thr Cys Ser Gly Asn Lys Leu Gly Asn Thr Tyr Ile
20 25 30
Ser Trp Tyr Gln Lys Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
35 40 45
Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60
Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Thr Gly Thr Gln Ser Leu
65 70 75 80
Asp Glu Ser Asp Tyr Tyr Cys Gln Thr Trp Asp Arg Ser Ser Val Val
85 90 95
Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 464
<211> 106
<212> PRT
<213> Homo sapiens

<400> 464

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15
Thr Ala Thr Ile Thr Cys Ser Gly Asn Lys Leu Gly Asn Thr Tyr Ile
20 25 30
Ser Trp Tyr Gln Lys Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
35 40 45
Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60
Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Thr Gly Thr Gln Ser Leu
65 70 75 80
Asp Glu Ser Asp Tyr Tyr Cys Gln Thr Trp Asp Arg Ser Ser Val Val
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 465
<211> 107
<212> PRT
<213> Homo sapiens

<400> 465

Gln Ser Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg
1 5 10 15
Val Thr Ile Ser Cys Ser Gly Gly Ser Ser Asn Ile Gly Leu Asn Pro
20 25 30
Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile
35 40 45
Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly
50 55 60
Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ala
65 70 75 80
Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Asn Ser Ser Val
85 90 95
Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 466
<211> 106
<212> PRT
<213> Homo sapiens

<400> 466

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15
Thr Ala Thr Ile Thr Cys Ser Gly Asp Lys Leu Gly Ser Lys Tyr Thr
20 25 30
Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Val Tyr
35 40 45
Gln Asn Arg Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60
Asn Ser Gly Asn Thr Ala Thr Leu Thr Val Ser Gly Thr Gln Ala Ile
65 70 75 80
Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Asn Ser Ala Val Ile

85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 467
<211> 106
<212> PRT
<213> Homo sapiens

<400> 467

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Arg Asn Lys Tyr Ala
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45

Gln Asp Arg Lys Arg Pro Ser Glu Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Ser Ser Ser Val Ile
85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu
100 105

<210> 468
<211> 105
<212> PRT
<213> Homo sapiens

<400> 468

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly His
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Gln Ile Leu Gly Glu Arg Ser Ala
20 25 30

Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Val Leu Val Leu Tyr
35 40 45

Gln Ser Ser Gln Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Ile Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Ala Gln Ser Ile
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Thr Ser Ile Leu Phe
85 90 95

Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 469
<211> 109
<212> PRT
<213> Homo sapiens

<400> 469

Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Arg Tyr
20 25 30

Asn Arg Val Ser Trp Tyr Gln Gln Ser Pro Gly Thr Ala Pro Lys Leu
35 40 45

Ile Ile Phe Glu Val Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60

Ser Gly Ser Arg Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Arg Asn Thr
85 90 95

Gly Pro Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 470
<211> 106
<212> PRT
<213> Homo sapiens

<400> 470

Gln Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser
20 25 30

Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile
85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu
100 105

<210> 471
<211> 106
<212> PRT
<213> Homo sapiens

<400> 471

Gln Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Asp Lys Leu Gly Ser Lys Tyr Thr
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Val Tyr
35 40 45

Gln Asn Arg Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Val Ser Gly Thr Gln Ala Ile
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Asn Ser Ala Val Ile
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 472
<211> 106
<212> PRT
<213> Homo sapiens

<400> 472

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Thr Leu Arg Asn Lys Tyr Ala
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
35 40 45

Gln Asp Arg Lys Arg Pro Ser Asn Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Val Met

Asn Ser Gly Asn Thr Ala Thr Leu Thr Val Ser Gly Thr Gln Ala Ile
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Asn Ser Ala Val Ile
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 475
<211> 110
<212> PRT
<213> Homo sapiens

<400> 475

Gln Tyr Glu Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15

Ser Ile Thr Ile Ser Cys Thr Gly Thr Gly Ser Asp Val Gly Arg Tyr
20 25 30

Ser His Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
35 40 45

Ile Ile Tyr Ala Val Thr Asn Arg Pro Ser Gly Val Ser Ala Arg Phe
50 55 60

Ser Gly Ser Arg Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65 70 75 80

Gln Ser Glu Asp Glu Ala Thr Tyr His Cys Gln Ser Tyr Thr Thr Thr
85 90 95

Gly Thr Leu Ile Phe Gly Gly Gly Thr Asn Leu Thr Val Leu
100 105 110

<210> 476
<211> 105
<212> PRT
<213> Homo sapiens

<400> 476

Gln Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly His
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Gln Ile Leu Gly Glu Arg Ser Ala
20 25 30

Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Val Leu Val Leu Tyr
35 40 45

Gln Ser Ser Gln Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Ile Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Ala Gln Ser Ile
65 70 75 80
Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Thr Ser Ile Leu Phe
85 90 95
Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 477
<211> 106
<212> PRT
<213> Homo sapiens

<400> 477

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15
Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Arg Asn Lys Tyr Ala
20 25 30
Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45
Gln Asp Arg Lys Arg Pro Ser Glu Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60
His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
65 70 75 80
Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Ser Ser Ser Val Ile
85 90 95
Phe Gly Gly Gly Thr Lys Val Thr Val Leu
100 105

<210> 478
<211> 106
<212> PRT
<213> Homo sapiens

<400> 478

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15
Thr Ala Ser Ile Thr Cys Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser
20 25 30
Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
35 40 45
Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser

50 55 60
 His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
 65 70 75 80
 Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile
 85 90 95
 Phe Gly Gly Gly Thr Lys Val Thr Val Leu
 100 105

<210> 479
 <211> 109
 <212> PRT
 <213> Homo sapiens

<400> 479

Gln Ser Glu Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
 1 5 10 15
 Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Arg Tyr
 20 25 30
 Asn Arg Val Ser Trp Tyr Gln Gln Ser Pro Gly Thr Ala Pro Lys Leu
 35 40 45
 Ile Ile Phe Glu Val Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
 50 55 60
 Ser Gly Ser Arg Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
 65 70 75 80
 Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Arg Asn Thr
 85 90 95
 Gly Pro Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 100 105

<210> 480
 <211> 109
 <212> PRT
 <213> Homo sapiens

<400> 480

Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
 1 5 10 15
 Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Gly Asn
 20 25 30
 Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45

Ile Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln
65 70 75 80

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Tyr Thr Asn Ser Ala
85 90 95

Thr Leu Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 481
<211> 106
<212> PRT
<213> Homo sapiens

<400> 481

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser
20 25 30

Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Leu Leu Val Ile Tyr
35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile
85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu
100 105

<210> 482
<211> 106
<212> PRT
<213> Homo sapiens

<400> 482

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Asn Lys Leu Gly Asn Thr Tyr Ile
20 25 30

Ser Trp Tyr Gln Lys Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Thr Gly Thr Gln Ser Leu
65 70 75 80

Asp Glu Ser Asp Tyr Tyr Cys Gln Thr Trp Asp Arg Ser Ser Val Val
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 483
<211> 106
<212> PRT
<213> Homo sapiens

<400> 483

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Arg Asn Lys Tyr Gly
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
35 40 45

Gln Asp Arg Lys Arg Pro Ser Glu Ile Pro Glu Arg Phe Ser Gly Ser
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 484
<211> 106
<212> PRT
<213> Homo sapiens

<400> 484

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Arg Asn Lys Tyr Ala
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr

<210> 489
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 489

Val Gly Met Tyr Asn Tyr Gly Phe Asp Ile
 1 5 10

<210> 490
 <211> 132
 <212> PRT
 <213> Homo sapiens

<400> 490

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr
 20 25 30

Trp Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Ser Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Val Gly Met Ala Thr Tyr Gly Phe Asp Ile Trp Gly Gln Gly
 100 105 110

Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
 115 120 125

Pro Leu Ala Pro
 130

<210> 491
 <211> 132
 <212> PRT
 <213> Homo sapiens

<400> 491

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr
 20 25 30
 Trp Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Val Gly Met Ser Asn Tyr Gly Phe Asp Phe Trp Gly Gln Gly
 100 105 110
 Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
 115 120 125
 Pro Leu Ala Pro
 130

<210> 492
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 492

Met Gln Ala Leu Gln Thr Leu Thr
 1 5

<210> 493
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 493

Met Gln Ala Leu Arg Ala Ile Thr
 1 5

<210> 494
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 494

Met Gln Ala Leu Gln Ala Ile Thr
 1 5

<210> 495
<211> 8
<212> PRT
<213> Homo sapiens

<400> 495

Met Gln Ala Leu Gln Ser Pro Thr
1 5

<210> 496
<211> 8
<212> PRT
<213> Homo sapiens

<400> 496

Met Gln Ala Leu Gln Ser Ile Thr
1 5

<210> 497
<211> 7
<212> PRT
<213> Homo sapiens

<400> 497

Met Gly Ser Asn Arg Ala Ser
1 5

<210> 498
<211> 7
<212> PRT
<213> Homo sapiens

<400> 498

Leu Gly Ser His Arg Ala Ser
1 5

<210> 499
<211> 7
<212> PRT
<213> Homo sapiens

<400> 499

Phe Gly Ser Asn Arg Ala Ser
1 5

<210> 503
<211> 16
<212> PRT
<213> Homo sapiens

<400> 503

Arg	Ser	Ser	Gln	Ser	Leu	Leu	His	Ser	Asn	Gly	Tyr	Asn	Tyr	Leu	Asp
1				5					10					15	

<210> 504
<211> 16
<212> PRT
<213> Homo sapiens

<400> 504

Arg	Ser	Ser	Gln	Ser	Leu	Leu	His	Ser	Ser	Gly	Tyr	His	Tyr	Leu	Asp
1				5					10					15	

<210> 505
<211> 16
<212> PRT
<213> Homo sapiens

<400> 505

Arg	Ser	Ser	Gln	Ser	Leu	Leu	Asn	Ile	Asp	Gly	Tyr	Asn	Tyr	Leu	Asp
1				5					10					15	

<210> 506
<211> 16
<212> PRT
<213> Homo sapiens

<400> 506

Arg	Ser	Ser	Gln	Ser	Leu	Leu	His	Arg	Asn	Gly	Tyr	Asn	Phe	Leu	Asp
1				5					10					15	

<210> 507
<211> 16
<212> PRT
<213> Homo sapiens

<400> 507

Arg	Ser	Ser	Gln	Ser	Leu	Arg	His	Asn	Asn	Gly	Tyr	Asn	Tyr	Leu	Asp
1				5					10					15	

<210> 508
<211> 112

<212> PRT
 <213> Homo sapiens

 <400> 508

 Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro
 1 5 10 15
 Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His
 20 25 30
 Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
 35 40 45
 Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val
 50 55 60
 Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
 65 70 75 80
 Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
 85 90 95
 Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
 100 105 110

<210> 509
 <211> 132
 <212> PRT
 <213> Homo sapiens

<400> 509

 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr
 20 25 30
 Trp Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Val Gly Met Ser Thr Tyr Gly Phe Asp Lys Trp Gly Gln Gly
 100 105 110
 Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
 115 120 125

Pro Leu Ala Pro
130

<210> 510
<211> 132
<212> PRT
<213> Homo sapiens

<400> 510

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	
1			5					10					15			
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Pro	Tyr	
			20					25					30			
Trp	Met	Phe	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	
		35					40					45				
Ser	Gly	Ile	Val	Ser	Ser	Gly	Gly	Met	Thr	Gly	Tyr	Ala	Asp	Ser	Val	
	50					55					60					
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	
65					70					75					80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	
				85					90					95		
Ala	Arg	Val	Gly	Met	Tyr	Asn	Tyr	Gly	Phe	Asp	Ile	Trp	Gly	Gln	Gly	
			100					105					110			
Thr	Met	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	
		115					120					125				

Pro Leu Ala Pro
130

<210> 511
<211> 112
<212> PRT
<213> Homo sapiens

<400> 511

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro	
1				5					10					15		
Gly	Glu	Pro	Ala	Ser	Ile	Ser	Cys	Lys	Ser	Ser	Gln	Ser	Leu	Leu	His	
			20					25					30			
Ser	Asn	Gly	Tyr	Asn	Tyr	Leu	Asp	Trp	Tyr	Leu	Gln	Lys	Pro	Gly	Gln	
		35					40					45				

Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val
50 55 60

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105 110

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matured clones of 807A-M0028-B02

<220>
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<223> X = S or G

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<223> X = V or I

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<223> X = L, H or F

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<223> X = Y, N or K

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Xaa Xaa Leu Xaa Asp Xaa
1 5

<210> 513
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matured clones of 807B-M0004-A03

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<400> 513

Ser Ile Ala Xaa Xaa Xaa Thr Asp Xaa
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matured clones of 807B-M0004-H03

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<223> X = V, L or A

<400> 514

Xaa Xaa Ser Xaa Xaa Val Xaa Lys Xaa Xaa Xaa Arg Xaa Xaa Tyr Tyr
1 5 10 15

Tyr Xaa Asp Xaa
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<220>
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matured clones of 807B-M0009-F06

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Val Gly Xaa Xaa Xaa Tyr Xaa Phe Asp Xaa
1 5 10

<210> 516
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<400> 516

Gly Xaa Leu Xaa Asp Xaa

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5

<210> 517
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<400> 517

Ser Ile Ala Xaa Xaa Xaa Thr Asp Xaa
1 5

<210> 518
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antibodies

<400> 518

Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
1 5 10

<210> 519
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<220>

<223> Amino acid sequence of the CL chains of the Germline-corrected antibodies

<400> 519

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
20 25 30

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
65 70 75 80

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 520

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> Amino acid sequence of the VL chains of the Germline-corrected antibodies

<400> 520

Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
1 5 10

<210> 521

<211> 107

<212> PRT

<213> Artificial sequence

<220>

<223> Amino acid sequence of the CL chains of the Germline-corrected antibodies

<400> 521

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 20 25 30
 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 35 40 45
 Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 50 55 60
 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 65 70 75 80
 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 85 90 95
 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 100 105

<210> 522
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 <212> PRT
 <213> Artificial sequence

<220>
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 antibodies

<400> 522

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 1 5 10

<210> 523
 <211> 106
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Amino acid sequence of the CL chains of the Germline-corrected
 antibodies

<400> 523

Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser
 1 5 10 15

Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp
 20 25 30

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro
 35 40 45

Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn
 50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
65 70 75 80

Ser His Lys Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val
85 90 95

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
100 105

<210> 524
<211> 10
<212> PRT
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antibodies

<400> 524

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
1 5 10

<210> 525
<211> 10
<212> PRT
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<220>
<223> Amino acid sequence of the VL chains of the Germline-corrected
antibodies

<400> 525

Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
1 5 10

<210> 526
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antibodies

<400> 526

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
1 5 10

<210> 527

<211> 106
<212> PRT
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<223> Amino acid sequence of the CL chains of the Germline-corrected antibodies

<400> 527

Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser
1 5 10 15

Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp
20 25 30

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro
35 40 45

Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn
50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
65 70 75 80

Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val
85 90 95

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
100 105